

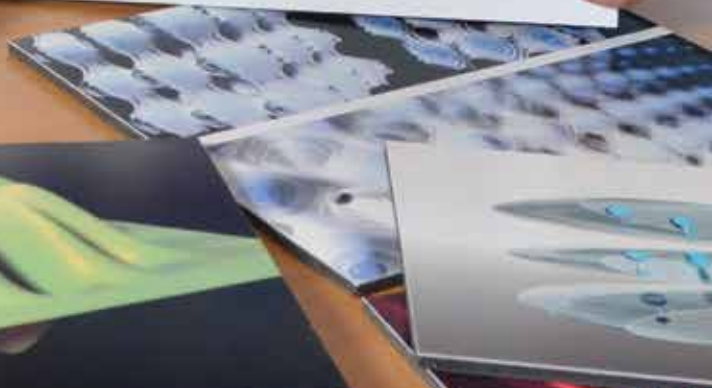


University of Colorado **Boulder**

2013-14

Catalog

*Redefining Teaching
& Learning*



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Welcome to the CU-Boulder Catalog, 2013–14

THE 2013–14 UNIVERSITY OF COLORADO BOULDER CATALOG contains a summary of campus offerings, policies, and requirements; descriptions of colleges, schools, and individual departments; and degree requirements, course descriptions, and faculty listings as of February 2013. Students should refer to the degree, major, and certification requirements listed at the time they formally enter a program. For additional information, students should consult their dean's office. Because the catalog is compiled in advance of the academic year it covers, changes in programs and policies may occur. Up-to-date information may be obtained by consulting departmental advisors, checking departmental bulletin boards, visiting MyCUinfo (mycuinfo.colorado.edu), and reviewing registration materials distributed each semester. All catalog information is subject to change without notice or obligation.

About the Course Descriptions

The courses listed through the [Courses](#) tab above are offered on the Boulder campus during the 2013–14 academic year. This listing does not constitute a guarantee that any particular course will be offered during this year. Consult specific programs and major requirements within each school and college for more information. Also see the online Schedule Planner for details about course offerings.

The *University of Colorado Boulder Catalog* is published yearly by CU-Boulder University Communications in cooperation with the academic departments.

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Course Numbering

Always consult specific departments and programs within schools and colleges for restrictions, requirements, and prerequisites.

- 1000–2000 courses are usually intended for lower-division students (freshmen and sophomores).
- 3000–4000 courses are intended for upper-division students (juniors and seniors), and may require instructor's consent. Consult the program or department for other restrictions.
- 5000-level courses usually require graduate-student status, but may be open to qualified undergraduates with instructor consent. Consult the program or department.
- Courses at the 6000, 7000, and 8000 level are usually open only to graduate students. Consult the program or department for restrictions.

Abbreviations

Coreq.—corequisite

Lab.—laboratory

Lect.—lecture

Prereq.—prerequisite

Rec.—recitation

CE/SL—civic engagement/service learning component

Nondiscrimination Statement

The University of Colorado Boulder does not discriminate on the basis of race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, or veteran status in admission and access to, and treatment and employment in, its educational programs and activities. The university takes affirmative action to increase ethnic, cultural, and gender diversity; to employ qualified disabled individuals; and to provide equal opportunity to all students and employees.

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[Other UCB Catalogs](#)

*School of Law, Summer Session,
Continuing Education, CAETE, and
Independent Learning offer their own
catalogs.*

[Main Catalog Archive](#)

*The archive of the university's main
catalogs for previous years.*



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University of Colorado History

AT ITS FIRST SESSION IN 1861, Colorado's territorial legislature passed an act providing for a university in Boulder. Between 1861 and 1876, Boulder citizens donated land south of town and made gifts from \$15 to \$1,000 to match the \$15,000 the state legislature appropriated for the university's construction. In 1875, Colorado citizens laid the cornerstone for the university's first building, Old Main, and officially founded CU in 1876, the same year Colorado joined the union. The university opened its doors the following year with 44 students, a president, and one instructor.

Today, the University of Colorado is a four-campus system that includes the University of Colorado Boulder, the University of Colorado Colorado Springs, the University of Colorado Denver, and the University of Colorado Anschutz Medical Campus. The campuses have a combined enrollment of about 60,000 students. To meet the needs of its students, the university system offers an extensive number of undergraduate, graduate, and professional degree programs, as well as opportunities to study abroad, engage in public service, and conduct research.

CU received sponsored program awards that include funding from the National Institutes of Health, the National Science Foundation and NASA. Sponsored research within the university system represents annual awards totaling more than \$813 million. Federal agencies are the principal sources of these funds for research and training contracts and grants, but the state of Colorado also provides appropriations for university operations, teaching, and research activities. CU also relies on revenues from tuition and fees, contracts and grants, investments and interest income, health services, and the generous support of private foundations and donors.

An elected nine-member Board of Regents governs CU and is charged by the state constitution with the general supervision of the university and the exclusive control and direction of all its funds and appropriations, unless otherwise provided by law. The board conducts its business at regular meetings open to the public and through committees. The president is the chief administrative officer and is responsible for providing leadership to the university.

For more information about the CU Board of Regents, go to www.cu.edu/regents; to learn more about the CU system, visit www.cu.edu.

Campuses

The Boulder Campus

Statutory Mission

CU-Boulder's vision is grounded in its statutory mission as a national public research university. In Colorado statute, the university is defined as the "*comprehensive graduate research university with selective admissions standards . . . , offer(ing) a comprehensive array of undergraduate, master, and doctoral degree programs*" of what is now designated the University of Colorado System.

CU-Boulder recognizes the exceptional opportunities associated with its role as a research university, and values the unique strength and character research achievements bring to undergraduate education. It is keenly aware of its responsibility for educating the next generation of citizens and leaders, and for fostering the spirit of discovery through research. Indeed, CU-Boulder believes that its students, both graduate and undergraduate, benefit from the comprehensive mix of programs and research excellence that characterize a flagship university. Thus, CU-Boulder's statutory mission is relevant today and will remain relevant tomorrow.

Since 2007, CU-Boulder's strategic plan, *Flagship 2030* (www.colorado.edu/flagship), has been guiding near-term actions and investments that will sustain CU's quality and competitiveness and, through visionary "flagship initiatives," will transform the university within the next quarter-century.

General Information about CU-Boulder

As a comprehensive university, CU-Boulder is committed to the liberal education of students via a broad curriculum ranging from the baccalaureate through the postdoctoral levels.

With an enrollment of more than 30,000 students, the University of Colorado Boulder is the largest campus in the four-campus system. The student population comes from every state in the nation and from more than 95 foreign countries. Many different ethnic, religious, academic, and social backgrounds are represented, fostering the development of a multicultural academic community that enriches each student's educational experience.

On the Boulder campus, the chancellor is the chief academic and administrative officer and is responsible for conducting campus affairs in accordance with the policies of the Regents, and overseeing the Athletic Department. Faculty participate in campus governance through the Faculty Senate and the Faculty Assembly. Students participate through the University of Colorado Student Government (CUSG) and the United Government of Graduate Students (UGGS).

CU-Boulder has over 1,100 tenure and tenure track faculty, with more than 98 percent holding doctorates or appropriate terminal degrees. The faculty includes nationally and internationally recognized scholars with many academic honors and awards, including several CU-Boulder research faculty from the National Snow and Ice Data Center who shared the 2007 Nobel Peace Prize with former Vice President Al Gore for their contributions to the international report of the Intergovernmental Panel on Climate Change; John Hall, winner of the 2005 Nobel Prize in physics; Carl Wieman and Eric Cornell, winners of the 2001 Nobel Prize in physics; Tom Cech, winner of the 1989 Nobel Prize in chemistry; and David Wineland, winner of the 2012 Nobel Prize in physics. Seven faculty have received MacArthur Fellowships, the so-called "genius grant." Twenty-five active

or retired faculty are members of the National Academy of Sciences; 23 are included in the membership of the American Academy of Arts and Sciences; 17 are members of the National Academy of Engineering; and six are members of the National Academy of Education. Most faculty members, including full professors, teach both undergraduate and graduate classes. Faculty members incorporate their research and creative activities directly into instructional programs.

Research conducted at CU-Boulder is supplemented by research institutes devoted both to the advancement of knowledge in particular areas and to graduate training. Many of these institutes have developed international reputations.

To enhance its research capabilities and to provide collaborative opportunities with government and business, CU-Boulder developed a 200-acre research park east of the main campus. The park provides expanded room for research institutes and centers that work closely with university researchers.

The educational environment of a research university is characterized by a broad range of experiences in many different settings. While the classroom is the location for most instructional activities, laboratories, seminars, and field work also are important features of the undergraduate and graduate experience. Some programs encourage off-campus internships and training; study abroad programs also have gained popularity. For students whose interests cross traditional disciplinary lines, a number of interdisciplinary programs are available.

The Campus Setting

CU-Boulder is located at the foot of the Rocky Mountains, at an altitude of 5,400 feet. The Flatirons geologic formation is visible from nearly everywhere on campus. The climate is temperate, with generally pleasant days and cool evenings. On average, Boulder enjoys about 340 sunny or partly sunny days each year. The main campus covers 600 acres and includes about 200 buildings constructed of rough-cut Colorado sandstone with red tile roofs. The rural Italian (or Tuscan vernacular) architectural style evolved from a master plan developed by Philadelphia architect Charles Klauder in 1919. The Norlin Quadrangle, including the original Old Main building, is listed in the State and *National Register of Historic Places*. The campus has been noted as one of the most aesthetically pleasing in the country.

Boulder County encompasses five ecological zones, from 5,000 feet above sea level (plains grassland) to 14,000 feet (alpine tundra). Downtown Boulder is only 20 miles from the Continental Divide and boasts some of the most spectacular scenery in the United States. The city of Boulder, population 99,000, is committed to preserving its beautiful natural environment and is surrounded by 26,000 acres of open space.

Denver, the state's capital city, is 30 miles from Boulder. Denver offers the attractions and resources of a large metropolitan area and is accessible from Boulder by traveling on U.S. 36, also known as the Denver-Boulder Turnpike. Denver's international airport is served by most major carriers and is located approximately 60 minutes southeast of Boulder. Boulder and the Denver International Airport are connected by a public transportation system.

Undergraduate Enrollment and Graduation Rates

CU-Boulder's fall 2012 entering freshman class numbered 5,470. Of these, 46 percent were females, 56 percent residents of Colorado, and 22 percent members of minority groups (African Americans, Asian Americans, Hispanics, and Native Americans). Sixty-eight percent enrolled in the College of Arts and Sciences, 14 percent in the Leeds School of Business, 13 percent in the College of Engineering and Applied Science, and 5 percent, combined, enrolled in the Program in Environmental Design, Journalism and Mass Communication Program, and the College of Music. About 10 percent of freshmen entering CU-Boulder transfer to another college or school within the university before they graduate.

Of the freshmen entering in summer or fall 2006 who enrolled full time, 42 percent graduated within

four years; 63 percent graduated within five years; and 68 percent graduated within six years. Of the students who entered in fall 2011, 84 percent returned for their second fall semester.

CU-Boulder Academic Programs

The Boulder campus offers more than 3,600 different courses in approximately 150 fields of study. These courses represent a full range of disciplines in the humanities, the social sciences, the physical and biological sciences, the fine and performing arts, and the professions. CU-Boulder is accredited by the Higher Learning Commission and a member of the North Central Association (www.ncahigherlearningcommission.org; **800-626-7440** or **312-263-0456**). (See *individual colleges and schools for additional accreditation information*.)

For information on the content of academic programs and official degree designations, refer to the appropriate catalog sections. Additional graduate and professional programs are located on other campuses of the university.

Colorado Springs Campus

The University of Colorado Colorado Springs, located on Austin Bluffs Parkway in Colorado Springs, is one of the fastest growing universities in the nation. The university offers 30 bachelor's, 26 master's, and five doctoral degrees. The campus enrolls about 9,800 students annually. Schools and colleges on this campus include:

- College of Business and Administration
- College of Education
- College of Engineering and Applied Science
- Graduate School
- College of Letters, Arts, and Sciences
- Beth-El College of Nursing and Health Sciences
- School of Public Affairs

University of Colorado Denver

The University of Colorado Denver offers comprehensive programs for undergraduate, graduate, and health sciences students on the Denver Campus and on the Anschutz Medical Campus in Aurora. Students study in more than 130 degree programs across 13 schools and colleges.

The university awards more than 4,000 degrees each year and confers more graduate degrees than any other institution in the state. More than \$434 million in sponsored research awards came to University of Colorado Denver in 2011–12.

Denver Campus

Near the heart of downtown, the campus is conveniently located on the Auraria Campus with easy access to Denver's commercial and governmental hubs. Schools and colleges on this campus include:

- College of Architecture and Planning
- College of Arts & Media
- Business School
- School of Education & Human Development
- College of Engineering and Applied Science
- College of Liberal Arts and Sciences
- School of Public Affairs

Anschutz Medical Campus

The Anschutz Medical Campus in Aurora delivers a broad network of health care programs. In addition to University of Colorado Hospital, a number of renowned institutes are affiliated with the campus. The Anschutz Medical Campus presents state-of-the-art educational and research facilities with an adjoining biomedical park. Schools and colleges on this campus include:

- School of Dental Medicine
- School of Medicine
- College of Nursing
- School of Pharmacy
- Colorado School of Public Health
- Graduate School



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Programs of Study

THE UNIVERSITY'S PROGRAMS OF STUDY listed below are organized by School or College; then program name (or major); then degrees, certificates, or minors when available. Names in blue link to the department or program page.

The university offers degree programs at the bachelor's, master's, and doctoral levels, and a juris doctor degree from the Law School. It also offers certificate programs at the undergraduate, graduate, and professional levels, and a variety of additional academic programs. The latest approved degrees may be found at the Office of Planning, Budget, and Analysis website at <http://www.colorado.edu/pba/degrees/approve/OfficialCatalogApprovedDegreesList2013-14.htm>.

CU-Boulder also provides dual-degree, double-degree, concurrent degrees, and interdisciplinary programs. Details may be found through the specific program of study in this catalog or by contacting the sponsoring department.

NOTE: In the tables below, the designation (MS) or (MA) indicates master's degree offered as part of the PhD program only. The IBA is the International Bachelor of Arts degree.

Arts & Sciences, College of

Actuarial Studies and Quantitative Finance Certificate Program Actuarial Studies Certificate Quantitative Finance Certificate	certificate certificate
Anthropology	BA, IBA, MA, PhD
Applied Mathematics (<i>see also College of Engineering & Applied Science below</i>)	MS, PhD, minor
Art and Art History Art History Studio Arts	BA, MA BA, BFA, MFA
Asian Languages and Civilizations Chinese Japanese South Asian Languages and Civilizations Middle Eastern and Islamic Studies	MA, PhD BA, minor BA, minor certificate certificate
Asian Studies	BA
Astrophysical and Planetary Sciences Astronomy	(MS), PhD, minor BA, IBA
Atmospheric and Oceanic Sciences	MS, PhD, minor
British and Irish Studies	certificate
Central and East European Studies	certificate
Chemistry and Biochemistry Biochemistry	BA, IBA, (MS), PhD, minor

Chemistry Chemical Physics	BA, IBA, (MS), PhD, minor PhD
Classics	BA, MA, PhD, minor
Communication	BA, MA, PhD
Comparative Literature	MA, PhD
Computer Science (see also <i>Engineering & Applied Science below</i>)	BA
Distributed Studies	BA
Ecology and Evolutionary Biology	BA, IBA, MA, PhD, minor
Economics	BA, (MA), PhD, minor
English Creative Writing	BA, MA, PhD MFA, minor
Environmental Studies	BA, IBA, MS, PhD
Ethnic Studies Comparative Ethnic Studies	BA, minor PhD
Film Studies	BA, BFA
French and Italian French Italian	BA, MA, PhD, minor BA, minor
Geography	BA, IBA, MA, PhD, minor
Geological Sciences Geology Geophysics	BA, IBA, MS, PhD, minor PhD
Germanic and Slavic Languages and Literatures German Studies Hebrew Studies Nordic Studies (Scandinavian) Russian Studies	BA, MA, PhD, minor minor minor BA, minor
History	BA, MA, PhD, minor
Humanities	BA
Integrative Physiology	BA, IBA, MS, PhD
International Affairs	BA, certificate
INVST Community Studies	
Jewish Studies	BA, minor
Lesbian, Gay, Bisexual, Transgender, and Queer Studies	certificate
Linguistics	BA, MA, PhD, minor
Mathematics	BA, MA, PhD, minor
Molecular, Cellular, and Developmental Biology	BA, IBA, (MA), PhD
Museum and Field Studies Museology	MS certificate
Peace and Conflict Studies	certificate
Philosophy	BA, MA, PhD, minor
Physics (see also <i>Engineering & Applied Science below</i>)	BA, IBA, MS, PhD, minor
Political Science	BA, MA, PhD, minor
Psychology and Neuroscience Psychology Neuroscience	BA, IBA, (MA), PhD certificate
Religious Studies	BA, MA, minor

Sociology	BA, (MA), PhD
Spanish and Portuguese Spanish Portuguese	BA, MA, PhD minor
Speech, Language, and Hearing Sciences Audiology	BA, IBA, MA, PhD AudD
Theatre and Dance Theatre Dance	BA, BFA, MA, PhD BA, BFA, MFA, minor
Western American Studies	certificate
Western Civilization Studies	certificate
Women and Gender Studies	BA, minor, certificate
Writing and Rhetoric, Program for	

Business, Leeds School of

Business Administration	BS, MS, MBA, PhD, certificates, minor
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Education, School of

Curriculum and Instruction	Post-BA licensure, MA, MA + licensure, PhD
Educational/Psychological Studies	MA, PhD
Research and Evaluation Methodology	PhD
Social, Multicultural, and Bilingual Foundations	MA, PhD

Engineering & Applied Science, College of

Aerospace Engineering Sciences	BS, MS, PhD
Applied Mathematics <i>(see also College of Arts & Sciences above)</i>	BS
Architectural Engineering	BS, MS, PhD
Chemical and Biological Engineering	BS
Chemical Engineering	BS, ME, MS, PhD
Civil Engineering	BS, MS, PhD
Computer Science <i>(see also College of Arts & Sciences above)</i>	BS, ME, MS, PhD
Electrical and Computer Engineering	BS
Electrical Engineering	BS, ME, MS, PhD
Engineering Management	ME, certificates
Engineering Physics <i>(see also College of Arts & Sciences above)</i>	BS
Environmental Engineering	BS
Materials Science and Engineering	MS, PhD
Mechanical Engineering	BS, ME, MS, PhD
Telecommunications	ME, MS, PhD

Environmental Design, Program in

Environmental Design	BEnvD
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Graduate School

Please see the complete listings of the Graduate School on their specific [Programs of Study](#) page.

Journalism & Mass Communication Program

Journalism	BS, MA
Communication	PhD

Law School

Master of Laws Law	LLM JD
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Music, College of

Music Arts in Music Music Education Musical Arts	BMus, MMus, PhD, certificates BAMus, certificates BMusEd, MMusED, certificates DMusA
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Other Academic Programs

Continuing Education Leadership, Certificate in the Study and Practice of Leadership Residential Academic Program Library Research Norlin Scholars Program Preprofessional programs Presidents Leadership Class Reserve Officer Training Corps Technology, Arts & Media Program	
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Colleges & Schools



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Education, School of

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Journalism & Mass Communication Program

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Law School

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Music, College of

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[Norlin Scholars Program](#)
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[Presidents Leadership Class](#)
[Reserve Officer Training Corps](#)
[Technology, Arts & Media Program](#)



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Undergraduate Admission



THE OFFICE OF ADMISSIONS WELCOMES inquiries from prospective students regarding undergraduate admission. Through the admission process, the university seeks to identify applicants who will successfully complete a collegiate academic program. Admission is based on many criteria, including high school GPA or GED test scores, high school rank, the quality of course work, college entrance test scores, personal essays, and the extent to which the [minimum academic preparation standards \(MAPS\)](#) have been met.

Inquiries relating to undergraduate admission to the University of Colorado Boulder may be addressed to:

Office of Admissions, Regent Administrative Center 125, University of Colorado Boulder,
552 UCB, Boulder, CO 80309-0552
303-492-6301 • TTY 303-492-5998 (for hard of hearing persons)

To find additional admission information online, go to admissions.colorado.edu/undergraduate.

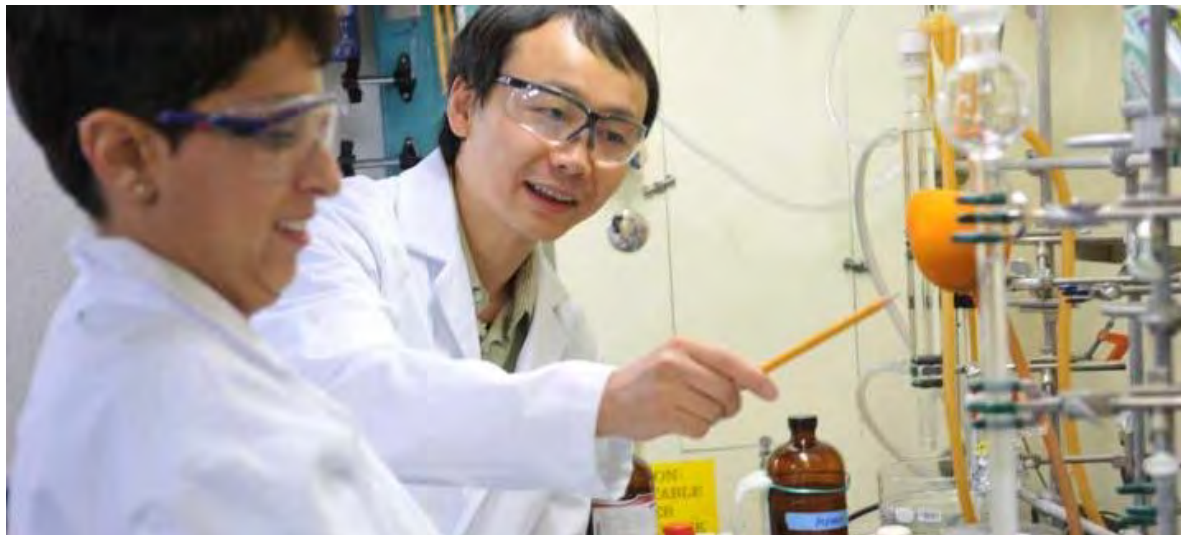
For admission requirements to graduate degree programs, see the [Graduate School](#) section and individual college and school sections.

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Graduate Admission



GRADUATE SCHOOL ADMISSION is handled by individual academic departments; see the department or specific graduate program for details. For more information, go to admissions.colorado.edu/graduate and also see the [Graduate School](#) section of this catalog.



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Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

ACCT

ACCT-2820 (3) Introduction to Personal Financial Planning

Introduces the concepts, tools, and applications of personal financial planning. Provides the students with tools and techniques for managing their personal finances. With these skills, students gain the ability to effectively deal with their ever-changing financial environment. Restricted to students with at least 26 hours completed.

[Leeds School of Business](#) | [Accounting](#)

ACCT-3220 (3) Corporate Financial Reporting 1

First of a two-course sequence intended to provide students with increased fluency in the language of business. Focuses on U.S. and international accounting concepts and methods that underlie financial statements and the related implications for interpreting financial accounting information. Prereqs., BCOR 2000 and BCOR 2200. Restricted to 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Accounting](#)

ACCT-3225 (6) Corporate Financial Reporting

Intended to provide students with increased fluency in the language of business. Focuses on U.S. and international accounting concepts and methods that underlie financial statements and the related implications for interpreting financial accounting information. Builds and extends detailed knowledge of preparation, analysis, and use of financial statements. Prereqs., BCOR 2000 and 2200. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Accounting](#)

ACCT-3230 (3) Corporate Financial Reporting 2

Second in a two-course sequence building and extending detailed knowledge of preparation, analysis, and use of financial statements. Prereqs., ACCT 3220 and 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-3320 (3) Cost Management

Provides cost analysis for the support of management decision making. Analyzes activities, cost behavior, role of accounting in planning, financial modeling, and managerial uses of cost data. Prereq., BCOR 2000 and 2200. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4240 (3) Advanced Financial Accounting

Examines advanced financial accounting theory and practice, emphasizing U.S. and international accounting for business combinations, consolidated financial statements, and accounting for partnerships. Prereqs., ACCT 3230. Restricted to Accounting or Finance majors with 52-180 units completed. Same as ACCT 5240. Prerequisites: Restricted to Accounting or Finance majors with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4250 (3) Financial Statement Analysis

Focuses on the use of U.S. and international accounting information by decision-makers external to the firm. Considers judgments made by investors, security analysts, bank lending officers, and auditors. Emphasizes equity valuation and risk analysis. Prereq., ACCT 3220. Prerequisites: Restricted to Accounting, Finance or Accounting Concurrent Degree majors only with 52-180 units completed.

Leeds School of Business | Accounting

ACCT-4330 (3) Advanced Cost Management

Critically analyzes advanced topics in cost management. Uses cases and current readings. Prereqs., ACCT 3220, 3230, and 3320. Same as ACCT 5330. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

Leeds School of Business | Accounting

ACCT-4430 (3) Personal Financial Planning

Extends the concepts, tools, and applications of personal finance and investments beyond ACCT 2820. Focuses on the development of a financial plan to achieve financial goals. Restricted to 52 hours completed.

ACCT-4440 (3) Income Taxation of Individuals

Examines concepts and structure of the United States income tax system. Focuses on concepts affecting all taxpayers, with emphasis on individual taxation. Prereq., ACCT 3220. Same as ACCT 5440. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

ACCT-4540 (3) Accounting Information Systems

Considers the interaction of accountants with information systems and the role of accounting information systems in business processes. Focuses on the tools used by accountants and provides an understanding of accounting as an information system. Prereq., ACCT 3220. Same as ACCT 5540. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

ACCT-4620 (3) Auditing and Assurance Services

Emphasizes the value of assurance services, including the market for financial-statement audits, and the audit decision process, from obtaining a client through planning and testing, to issuance of the audit report. Focuses on making judgments and decisions under conditions of uncertainty and continually evaluating the substance of business transactions over their form. Prereq., ACCT 3230. Same as ACCT 5620. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

ACCT-4800 (3) Accounting for Government and Nonprofit Organizations

Reporting, planning and control of government and nonprofit organizations. Includes program budgets, responsibility accounting, and fund accounting. Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed. Prereq., ACCT 3220. Same as ACCT 5800. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

ACCT-4820 (3) Topics in Business

Offered irregularly to provide opportunity for investigation of new frontiers in accounting. Prereq., ACCT 3220. Same as ACCT 5820. Prerequisites: Restricted to Accounting or Accounting Concurrent Degree majors 52-180 units completed.

ACCT-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Accounting. Restricted to juniors/seniors. Same as ACCT 5825.

Leeds School of Business | Accounting

ACCT-4827 (3) Integrated Reporting for Socially Responsible Strategies

Explores the growing global trend of companies to measure, disclose and report for socially responsible initiatives. Integrated reporting combines financial, environmental, social and governance information into a single report. Current practices in sustainability and integrated reporting in the US and across the world will be examined/learned through case studies, guest speakers, current literature and projects. Can be taken concurrently with BCOR 3010 and ACCT 3220. Same as CESR 4827. Prerequisites: Requires pre-req course of BCOR 2000 and 2200. Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business | Accounting

ACCT-4850 (3) Senior Seminar in Accounting

This seminar examines the nature of accounting theory and practice from perspectives of economics, law, globalization, accounting, ethics, and moral reasoning. This course also explores issues including implications of institutional factors, such as Sarbanes-Oxley, SEC, FASB, IFRS, and capital markets. Prereqs., ACCT 3230, one 4000-level ACCT course. Restricted to 102 hours completed and to graduating senior ACCT majors. Formerly BCOR 4001. Prerequisites: Restricted to Accounting majors with 102-180 units completed.

Leeds School of Business | Accounting

ACCT-4900 (1-3) Independent Study

Requires prior consent of dean and instructor under whose direction study is taken. Intended only for exceptionally well-qualified business seniors. Departmental form required.

Leeds School of Business | Accounting

ACCT-5240 (3) Advanced Financial Accounting

Examines advanced financial accounting theory and practice, emphasizing U.S. and international accounting for business combinations, consolidated financial statements, and accounting for partnerships. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5250 (3) Financial Statement Analysis

Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prereqs., ACCT 3220 and MBAC 6020. Same as ACCT 4250. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5330 (3) Advanced Cost Management

Critically analyzes advanced topics in cost management. Uses cases and current readings. Prereq., ACCT 3320. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5440 (3) Income Taxation of Individuals

Prereq., ACCT 3220. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4440. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5540 (3) Accounting Information Systems

Prereq., ACCT 3220 or equivalent. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4540. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5620 (3) Auditing and Assurance Services

Emphasizes the value of assurance services, including the market for financial-statement audits, and the audit decision process, from obtaining a client through planning and testing, to issuance of the audit report. Focuses on making judgments and decisions under conditions of uncertainty and continually evaluating the substance of business transactions over their form. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4620. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-5700 (3) International Accounting

Intensive focus on international financial statement analysis, cultural and economic differences that affect financial reporting in various countries. Examples include international financial reporting standards and accounting for foreign currency transactions. Prereq., ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4700. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT

ACCT-5800 (3) Accounting for Government and Nonprofit Organizations

Reporting, planning and control of government and nonprofit organizations. Includes program budgets, responsibility accounting, and fund accounting. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prereq., ACCT 3220. Same as ACCT 4800. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

[Leeds School of Business](#) | [Accounting](#)

ACCT-5820 (3) Topics in Business

Prereq., ACCT 3230 or equivalent. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4820. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

[Leeds School of Business](#) | [Accounting](#)

ACCT-5825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Accounting. Prereq. ACCT 3230. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as ACCT 4825. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

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ACCT-6000 (1-4) Academic Internship in Accounting

Offers students the opportunity to gain professional work experience in an accounting or tax position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Includes lectures and a course paper. Students may not preregister for this course, and they must contact the Director of the concurrent degree program in accounting for approval. Restricted to graduate students only. Prereq., ACCT 3230, at least 90 credit hours of course work and a minimum GPA of 3.00, and instructor consent. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-6220 (3) Corporate Financial Reporting

Provides an in-depth study of the concepts underlying contemporary financial accounting practice. Includes preparation and analysis of financial statements and the application of concepts to selected current issues. Students with credit for ACCT 3220 and 3230 or equivalents may not receive credit for ACCT 6220. Prereq., MBAC 6020 or equivalent. Same as MBAX 6700.

Leeds School of Business | Accounting

ACCT-6250 (3) Financial Statement Analysis

Focuses on the use of accounting information by decision makers external to the firm. Considers judgments made by investors, security analysts, bank lending officers, and auditors. Emphasizes equity analysis. Prereq., MBAC 6020 or equivalent. Same as MBAX 6710.

Leeds School of Business | Accounting

ACCT-6260 (3) Seminar: Managerial Accounting

Explores cost management, especially as related to organizational decision making, planning, and control. Emphasizes case analysis and applications. Prereq., MBAC 6020 or equivalent, or instructor consent.

Leeds School of Business | Accounting

ACCT-6270 (3) Seminar: Income Determination

Critical analysis of problems and theory of measurement and reporting of periodic net income of business organizations. Net income models, research efforts, and role of professional accounting organizations. Current issues and problems given special attention. Prereq., ACCT 3230 or equivalent, or instructor consent.

Leeds School of Business | Accounting

ACCT-6350 (3) Current Issues in Professional Accounting

Examines the nature of accounting theory and practice from perspectives of economics, law, globalization, accounting, ethics, and moral reasoning. This course also explores issues including implications of institutional factors, such as Sarbanes-Oxley, SEC, FASB, IFRS, and capital markets. Counts as senior seminar for Concurrent degree students. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-6420 (3) Research and Writing in Income Taxation

Studies and applies the method used in tax research and tax planning, with the goal of developing tax research, technical writing, and tax planning skills. Topics include examining primary and secondary sources of federal tax law, evaluating the hierarchy of these sources, and developing technical writing skills using deductive legal reasoning. Prereq., ACCT 5440 or equivalent, or instructor consent. Prerequisites: Restricted to graduate students in Accounting, Finance, Mgt Sci-Information Systems, Organizational Management, Marketing, Business Administration, or Master of Business Administration.

Leeds School of Business | Accounting

ACCT-6430 (3) Taxation of Partnerships

Studies federal income taxation of pass-through entities such as those used by most small businesses in the U.S. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., ACCT 5440 or equivalent, or instructor consent. Coreqs., ACCT 6420 and 6700. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as LAWS 6167. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-6440 (2-3) Tax Policy

Offers a research seminar exploring policy issues of taxation including recent legislative proposals. Students prepare a publishable research paper on a tax policy topic agreed upon with the instructor. Prereq., ACCT 5440 or equivalent, or instructor consent. Coreqs., ACCT 6420 and 6700.

Leeds School of Business | Accounting

ACCT-6450 (3) Taxation of Corporations

Studies federal income taxation related to taxable corporations, the entities through which a large part of the economic activity in the U.S.

is conducted. Includes creation, operation, distributions, sale of interests, and liquidation. Prereq., ACCT 5440 or instructor consent. Coreqs., ACCT 6420 and 6700. Same as LAWS 6157. Prerequisites: Restricted to Business Administration, Accounting, Accounting-Taxation, Accounting-Information Systems, Mgt Sci-Information Systems, Finance, Marketing or Master of Business Admin graduate students only.

Leeds School of Business | Accounting

ACCT-6490 (3) Taxation of Natural Resources

Concerned with tax problems encountered in acquisition, operation, and disposition of natural resource properties. Topics include depletion, lease bonuses, intangible drilling costs, depreciation, and financing arrangements. Prereqs., admission to the graduate tax program, ACCT 6700 or equivalent, or instructor consent.

Leeds School of Business | Accounting

ACCT-6500 (3) Special Topics in Taxation

Covers a diverse array of issues in taxation. Highlights areas of current interest and draws on the strengths of leading outside authorities as guest lecturers in various topic areas. Prereq., ACCT 6420 and 6700.

Leeds School of Business | Accounting

ACCT-6620 (3) Advanced Auditing: Business Risk and Decision Analysis

Explores contemporary issues, historical developments, and selected topics pertinent to business assurance services by independent accountants. Emphasizes improving both the decision behavior of decision makers and the quality of information, or its context, for decision makers. Prereq., ACCT 5620 or equivalent.

Leeds School of Business | Accounting

ACCT-6700 (4) Income Taxation

Emphasizes the fundamentals of the federal income tax system and examines its impact on the individual. Prereq., ACCT 5440 or equivalent. Same as LAWS 6007. Prerequisites: Restricted to Accounting (ACCT), Accounting-Information Systems (ACIS), Accounting - Taxation (ACTX), Master of Business Admin (MBA) or Business Administration (BUAD) graduate students only.

Leeds School of Business | Accounting

ACCT-6710 (3) Federal Estate and Gift Tax

Analyzes federal estate and gift taxation of inter vivos and testamentary transfers, introduces income taxation of estates and trusts, and involves elementary estate planning. Prereq., ACCT 5440 or equivalent. Coreqs., ACCT 6420 and 6700. Same as LAWS 7207.

Prerequisites: Restricted to Accounting (ACCT), Accounting-Information Systems (ACIS), Accounting - Taxation (ACTX), Master of Business Admin (MBA) or Business Administration (BUAD) graduate students only.

Leeds School of Business | Accounting

ACCT-6720 (2) Estate Planning

Discusses problems and solutions for owners of various-sized estates and different types of assets including jointly-held property, stock in closely-held corporations and farms, analysis of federal taxation of generation-skipping transfers in trust, postmortem estate planning, and drafting of trusts and wills. Prereq., ACCT 6710 or equivalent. Same as LAWS 7217.

Leeds School of Business | Accounting

ACCT-6780 (3) International Taxation

Covers basic aspects of the United States taxation of income earned abroad by its citizens and the taxation income derived by foreign persons from U.S. sources, including the implications of income tax treaties. Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only. Same as LAWS 7617. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-6820 (1-3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in accounting. Prereq. varies.

Leeds School of Business | Accounting

ACCT-6900 (1-6) Independent Study

Requires prior consent of instructor under whose direction study is taken. Departmental form required. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

Leeds School of Business | Accounting

ACCT-6940 (1) Master's Degree Candidacy

Departmental form required. Prerequisites: Restricted to Business graduate students only.

Leeds School of Business | Accounting

ACCT-6950 (1-4) Master's Thesis

Prerequisites: Restricted to Business graduate students only.

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ACCT-7300 (3) Doctoral Seminar: Introduction to Accounting Research

Introduces students to seminal accounting research, covering a variety of topics and research methods. Provides students with instruction and experience in reading, critiquing and discussing accounting research. Provides a framework for understanding the financial reporting choice from both contracting and valuation perspectives.

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ACCT

ACCT-7320 (3) Doctoral Seminar: Accounting and Capital Markets I

One semester of a two-semester course in accounting-related capital markets and research, spanning topics such as: information intermediaries; earning management; auditing and other monitoring mechanisms; efficient versus opportunistic accounting choice related to contracts between the firm and its stakeholders; cost of capital; and market efficiency with respect to accounting information. Papers covered apply primarily economics-based archival and empirical research methods. Prereq., ACCT 7300.

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ACCT-7330 (3) Doctoral Seminar: Accounting and Capital Markets 2

The second semester of a two-semester course in accounting-related capital markets research. See ACCT 7320 for a description of the course content which is allocated evenly between ACCT 7320 and 7330.

[Leeds School of Business](#) | [Accounting](#)

ACCT-7340 (3) Doctoral Seminar: Managerial Accounting Research

Survey of managerial accounting research, emphasizing a variety of methodologies including economics-based archival empirical and experimental approaches. Topics include: management performance measurement; management incentives; non-financial performance measures; management control systems; cost behavior and cost structure; intra-firm transfer pricing; inter-firm relations and knowledge sharing; risk preferences; risk taking and risk sharing; strategic performance measurement; agency theory; and budgetary slack and performance. Prereq., Acct 7300. Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) | [Accounting](#)

ACCT-7800 (3) Doctoral Seminar: Accounting Theory

Follows the evolution of game-theoretic analytical research and application of analytical methods to topics including: accounting-based valuation, discretionary disclosure, stewardship role of accounting, insider trading and imperfect capital market models, signaling through accounting choice, deferred tax accounting, audit sampling, auditor rotation, and low balling. Describes implications of analytical results for primarily economics-based empirical research designs. Open only to doctoral students.

Leeds School of Business Accounting

ACCT-7830 (3) Doctoral Seminar: Accounting Research

Designed to assist the doctoral student in integrating courses and fields of study in order to be able to apply knowledge and skills to problems in accounting. Special attention given to the development of thesis topics.

Leeds School of Business Accounting

ACCT-8820 (1-6) Graduate Seminar

Provides opportunity for investigation of new frontiers in accounting through an experimental seminar. May be repeated up to 6 total credit hours. Prereq. varies. Offered irregularly.

Leeds School of Business Accounting

ACCT-8900 (1-3) Independent Study

Requires instructor's consent and departmental form (taught as doctoral seminar). Prerequisites: Restricted to Business graduate students only.

Leeds School of Business Accounting

ACCT-8990 (1-10) Doctoral Thesis

Prerequisites: Restricted to Business graduate students only.

Leeds School of Business Accounting



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AIRR

AIRR-1010 (1) Foundations of the United States Air Force 1

One 1-hour lecture and one 2-hour lab per week. Introduces students to the U.S. Air Force and the USAF officer profession. Uses instructor lectures, films and videos, and group activities to examine Air Force issues, officership qualities, and military customs and courtesies. Emphasizes the communication skills necessary for an Air Force officer.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Air Force Aerospace Studies](#)

AIRR-1020 (1) Foundations of the United States Air Force 2

A continuation of AIRR 1010-1. One 1-hour lecture and one 2-hour lab per week.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Air Force Aerospace Studies](#)

AIRR-2010 (1) The Evolution of USAF Air and Space Power 1

One 1-hour lecture and one 2-hour lab per week. Studies air power from balloons and dirigibles through the jet age and historically reviews air power employment in military and nonmilitary operations in support of national objectives. Looks at the evolution of air power concepts and doctrine and introduces the development of communicative skills.

[Cross College Programs](#)
[Reserve Office Training Corp](#)
[Air Force Aerospace Studies](#)

AIRR-2020 (1) The Evolution of USAF Air and Space Power 2

a continuation of Airr 2010. One 1-hour lecture and one 2-hour lab per week.

[Cross College Programs](#) [Reserve Office Training Corp](#) [Air Force Aerospace Studies](#)

AIRR-3010 (3) Air Force Leadership Studies I

Two 1 1/2-hour seminars plus one 2-hour lab per week. Provides an integrated management course emphasizing concepts and skills required by the successful manager and leader. Includes individual motivational and behavioral processes, leadership, communication, and group dynamics while providing foundation for the development of the junior officer's professional skills (officership). Emphasizes decision making and use of analytic aids in planning, organizing and controlling in a changing environment. Discusses organizational and personal values (ethics), management of change, organizational power, politics, managerial strategy, and tactics within the context of military organization. Uses actual Air Force case studies throughout the course to enhance the learning and communication process.

[Cross College Programs](#) [Reserve Office Training Corp](#) [Air Force Aerospace Studies](#)

AIRR-3020 (3) Air Force Leadership Studies II

Two 1 1/2-hour seminars and one 2-hour lab per week. Continuation of AIRR 3010. Emphasizes basic managerial processes while employing group discussions, case studies, and role playing as learning devices. Continues to emphasize the development of communicative skills.

[Cross College Programs](#) [Reserve Office Training Corp](#) [Air Force Aerospace Studies](#)

AIRR-4010 (3) National Security Affairs/Preparation for Active Duty

Two 1 1/2-hour seminars and one 2-hour lab per week. Studies U.S. national security policy which examines the formulation, organization, and implementation of national security policy; context of national security; evolution of strategy; management of conflict; and civil-military interaction. Also includes blocks of instruction on the military profession/officership, the military justice system, and communicative skills. Provides future Air Force officers with the background of U.S. national security policy so they can effectively function in today's Air Force.

[Cross College Programs](#) [Reserve Office Training Corp](#) [Air Force Aerospace Studies](#)

AIRR-4020 (3) National Security Forces in Contemporary American Society 2

Two 1 1/2-hour seminars and one 2-hour lab per week. a continuation of AIRR 4010. Includes defense strategy conflict management, formulation/implementation of U.S. defense policy, and organizational factors and case studies in policy making, military law, uniform code of military justice, and communication skills.

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ANTH

ANTH-1030 (3) Principles of Anthropology 1

Evolution of humanity and culture from beginnings through early metal ages. Covers human evolution, race, prehistory, and rise of early civilizations. This course is taught through Continuing Education. Meets MAPS requirements for social science: general.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-1040 (3) Principles of Anthropology 2

Surveys the world's major culture areas. Covers components of culture, such as subsistence, social organization, religion, and language. This course is taught through Continuing Education. Meets MAPS requirement for social science: general.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-1100 (3) Exploring a Non-Western Culture: The Tamils

Surveys the social and economic patterns, ideas and values, and aesthetic achievements of the Tamils, a Hindu people who live in South India and Sri Lanka. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-1105 (3) Exploring a Non-Western Culture: Tibet

Introduction to Tibetan culture, history, religion, and society from an anthropological perspective, including traditional as well as contemporary dimensions. Topics will include Tibetan Buddhism, politics, nomadism, gender, refugee issues, and the global Tibetan diaspora, all framed within the larger methods and concepts of cultural anthropology. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1115 (3) The Caribbean in Post-Colonial Perspective

Introduces the student to the varied peoples and cultures in the Caribbean region, emphasizing the historical, colonial, and contemporary political-economic contexts of their social structure and cultural patterns. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1120 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ETHN 1123. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1135 (3) Exploring a Non-Western Culture: TBA

Examines the geography, kinship, politics and religious values of a particular non-Western people in historical and contemporary context through an anthropological perspective. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1140 (3) Exploring a Non-Western Culture: The Maya

Explores the culture of the Maya of Central America, emphasizing their material adaptations, social organizations, ideals and values, and artistic achievements in the past and the present. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1145 (3) Exploring a Non-Western Culture: The Aztecs

Explores the culture of the Aztec people of Central Mexico: their subsistence, society, religion, and achievements, as well as the impact of the Aztec empire in Mesoamerica. Also reviews the clash of a non-western society with the western world with the arrival of the Spanish conquistadors. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1150 (3) Exploring a Non-Western Culture: Regional Cultures of Africa

Explores a small number of cultures in a specific sub-region of Africa from an integrated holistic viewpoint, emphasizing material adaptations, social patterns, ideas and values, and aesthetic achievements. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1160 (3) The Ancient Egyptian Civilization

Emphasizes the origin of the Egyptian culture, its importance, and its impact on other cultures. In addition, the different points of view of various scholars are discussed with a comparative study of the ancient Egyptian culture and modern culture of Egypt and the Middle East. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1170 (3) Exploring Culture and Gender through Film

Uses films and written texts to explore the concepts of culture and gender, as well as ethnicity and race. By looking at gender, ethnicity, and race cross-culturally, students will know how these concepts are constructed in their own society, as well as in others. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-1180 (3) Maritime People: Fishers and Seafarers

Explores important milestones in the development of human societies and cultures that live from the sea. Emphasizes the evolution of maritime adaptations associated with fishing and seafaring from more than 10,000 years ago through the present. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Anthropology

ANTH-1190 (3) Origins of Ancient Civilizations

Examines origins of the world's first civilizations in Mesopotamia, Egypt, the Indus Valley, Mesoamerica, and the Andes. Covers archaeology of ancient cities, trade, economy, politics, warfare, religion, and ideology. Seeks insights into general processes of cultural evolution. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Anthropology

ANTH-1200 (3) Culture and Power

Compares contemporary sociopolitical systems across cultures, from non-Western tribal groups to modern states. Introduces students to anthropological approaches for understanding and analyzing political forces, processes, and institutions that affect cultures such as colonialism, warfare, violence, ethnicity, migration, and globalization. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Anthropology

ANTH-2009 (3) Modern Issues, Ancient Times.

Considers issues of vital importance to humans, both now and in ancient times. Topics such as food, death, sex, family, literacy, or power are explored to consider how ancient societal norms and attitudes evolved, and how they relate to modern culture. Draws on material and literary evidence to develop an understanding of the complexities of ancient life. Same as CLAS 2009. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Anthropology

ANTH-2010 (3) Introduction to Physical Anthropology 1

Detailed consideration of human biology, the place of humans in the animal kingdom, primate ecology, and fossil evidence for human evolution. Credit not granted for this course and ANTH 2050. Required for ANTH majors. Approved for GT-SC1. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Anthropology

ANTH-2020 (3) Introduction to Physical Anthropology 2

Continuation of ANTH 2010. Emphasizes genetics, human variation, and microevolution. Prereq., ANTH 2010. Credit not granted for this course and ANTH 2060. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Anthropology

ANTH-2030 (1) Laboratory in Physical Anthropology 1

Lab in human osteology and musculoskeletal system emphasizing comparative primate morphology, adaptation, and the fossil record documenting the natural history of primates. Coreq., ANTH 2010. Approved for GT-SC1. Meets MAPS requirement for natural science: lab, when taken with ANTH 2010. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Anthropology

ANTH-2040 (1) Laboratory in Physical Anthropology 2

Experiments and hands-on exercises designed to enhance understanding of the principles and concepts presented in ANTH 2020. One two-hour class per week. Coreq., ANTH 2020. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Anthropology

ANTH-2070 (3) Bones, Bodies, and Disease

Studies the human skeleton and introduces techniques used to evaluate demographic variables. Applies techniques through evaluation of photographic images of an excellently preserved mummified skeletal population from ancient Nubia to reconstruct prehistoric patterns of adaptation and biocultural evolution. Offered through Continuing Education only. Recommended prereq., ANTH 2010.

College of Arts & Sciences Anthropology

ANTH-2100 (3) Frontiers of Cultural Anthropology

Covers current theories in cultural anthropology and discusses the nature of field work. Explores major schools of thought and ethnographic fieldwork in a range of cultures studied by anthropologists. Required for ANTH majors.

College of Arts & Sciences Anthropology

ANTH-2200 (3) Introduction to Archaeology

Discusses history, basic concepts, techniques, and theoretical construction of archaeological field and laboratory investigations, as well as a general outline of world prehistory. Required for ANTH majors.

College of Arts & Sciences Anthropology

ANTH-2210 (1) Laboratory Course in Archaeological Methods

Studies analytical methods in archaeological research including those employed both in the field and in the laboratory. Deals with practical exercises illustrating many of the theoretical principles covered in ANTH 2200. Coreq., ANTH 2200.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-3000 (3) Primate Behavior

Surveys naturalistic primate behavior. Emphasizes social behavior, behavioral ecology, and evolution as they lead to an understanding of human behavior. Restricted to students with 57-180 credits (Junior or Senior). Prereqs., ANTH 2010 or EBIO 1210. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite course of ANTH 2010 or EBIO 1210. Restricted to students with 57-180 credits (Junior or Senior).

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ANTH

ANTH-3010 (3) The Human Animal

Identifies genetic, anatomical, physiological, social, and behavioral characteristics humans share with other mammals and primates. Explores how these characteristics are influenced by modern culture. Prereq., ANTH 2010 or equivalent. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-3100 (3) Africa: Peoples and Societies in Change

Examines culture and politics in Africa through works by anthropologists and historians, as well as novels, films, and journalistic accounts. Special attention is devoted to the ways in which various African cultures have creatively and resiliently responded to the slave trade, European colonialism, and post-colonialism. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-3110 (3) Ethnography of Mexico and Central America

A broad overview, focusing on Mexico and Guatemala. Major topics include ethnohistory, indigenous and mestizo peoples, and contemporary problems and issues. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-3160 (3) Peoples of the South Pacific

Surveys traditional island cultures and contemporary changes in the Pacific, focusing on how the Pacific Islands were first settled, some

of the great anthropologists who studied the islanders, and how current environmental changes, such as global warming, threaten the future existence of the islands. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-3170 (3) America: An Anthropological Perspective

Historical and contemporary aspects of American life are considered from an anthropological perspective. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Anthropology

ANTH-3180 (3) Gender, Culture, and Sexuality

Focuses on gender, that is, the making of men and women, and how gender is culturally constructed in different societies. Gender describes many areas of behavior, feelings, thoughts, and fantasies that cannot be understood as primarily biologically produced. Sexuality and sexual systems are sometimes viewed as products of particular gendering practices, but recent theories suggest that sexual systems themselves constitute gender. Prereq., ANTH 2100. Similar to WMST 2080. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-3218 (3) Peoples and Cultures of West Africa

Deals with the history and anthropology of selected west African societies in the period before the imposition of European colonial rule. Same as HIST 3218.

College of Arts & Sciences Anthropology

ANTH-3300 (3) Elements of Religion

Explores universal components of religion, as inferred from religions of the world, ranging from smaller-scale oral to larger-scale literate traditions. Restricted to sophomores/juniors/seniors. Same as ETHN 3301. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4000 (3) Quantitative Methods in Anthropology

Surveys ways of deriving meaning from anthropological data by numerical means, including but not confined to basic statistical procedures. Prereqs., ANTH 2010 and 2020. Same as ANTH 5000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ANTH-4020 (3-6) Explorations in Anthropology

Special topics in cultural and physical anthropology, as well as archaeology. Check with the department for semester offerings. May be repeated up to 9 total credit hours. Restricted to Junior or Senior Anthropology Majors only. Same as ANTH 5020. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

ANTH-4045 (3) Introduction to Museum Anthropology

This course traces the development of Anthropology and museums in America from late 19th century to present day. Students are encouraged to: explore museum theory and practice; think critically about the history of relations among Native Americans, Anthropology, and museums; consider the legacy of collecting and challenges of representing others; and, examine the interplay of Anthropology, material culture, and colonialism. ANTH 4045, ANTH 5045, and MUSM 5045 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

ANTH-4050 (3) Anthropology of Jews and Judaism

Explores topics in Jewish anthropology. Course will use the lens of anthropological inquiry to explore, discover and analyze different concepts within Jewish culture. Topics explored will include customs, religious practices, languages, ethnic and regional subdivisions, occupations, social composition, and folklore. Courses will explore fundamental questions about the definition of Jewish identity, practices and communities. May be repeated up to 9 total credit hours. Restricted to students with 57-180 credits (Junior or Senior). ANTH 4050 and JWST 4050 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

ANTH-4060 (3) Nutrition and Anthropology

Overview of the evolution of human diet and ecological and cultural factors shaping modern diets. Introduces fundamentals of nutrition and analysis of nutritional status. Analyzes ecological, social, and cultural factors leading to hunger and undernutrition, as well as biological and behavioral consequences of undernutrition. Prereqs., ANTH 2010 and 2020, or EBIO 1210 and 1220, or EBIO 1030 and 1040. Same as ANTH 5060. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

ANTH-4070 (3) Methods in Biological Anthropology

Provides laboratory-based research experience in selected areas of biological anthropology. Research designs, methods and applications will be used to develop research skills. Students will read original research papers and carry out a research project of their own design. Area of emphasis within biological anthropology will depend on instructor. May be repeated up to 6 total credit hours. Prereqs., ANTH 2010 and 2020. Recommended prereqs., ANTH 2030, 2040, and 4000. Restricted to juniors/seniors. Same as ANTH 5070.

College of Arts & Sciences Anthropology

ANTH-4110 (3) Human Evolutionary Biology

Detailed consideration of the fossil evidence for human evolution. Covers the discovery of important fossils and interpretations; descriptive information about the fossils; and data and theory from Pleistocene studies relating to ecology, ecological and behavioral data on modern apes, and molecular studies that have bearing on the study of human evolution. Restricted to students with 57-180 credits (Junior or Senior). Prereqs., ANTH 2010 or 2020, or EBIO 1210 or 1220. Same as ANTH 5110. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4120 (3) Advanced Physical Anthropology

Selected topics in physical anthropology emphasizing faculty specialties. Topics may include population genetics and its application to understanding modern human diversity, human population biology, and primate ecology and evolution. May be repeated up to 6 total credit hours. Prereq., ANTH 2010 or 2020, or EBIO 1210 or 1220. Same as ANTH 5120. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4129 (3) Aegean Art and Archaeology

A detailed study of the cultures of prehistoric Greece, the Cycladic Islands, and Crete, their art and archaeology, and their history within the broader context of the eastern Mediterranean, from earliest human settlement to the collapse of the Bronze Age at about 1100 B.C.E. Emphasis is on palace states. Same as ARTH/CLAS 4129, ANTH 5129.

College of Arts & Sciences Anthropology

ANTH-4130 (3) Advanced Osteology

Detailed study of the human skeleton with special attention to health and demographic conditions in prehistoric cultures and the evaluation of physical characteristics and genetic relationships of prehistoric populations. Prereqs., ANTH 2010, 2020, and 4000. Restricted to juniors and seniors. Same as ANTH 5130.

College of Arts & Sciences Anthropology

ANTH-4150 (3) Human Ecology: Biological Aspects

Discusses role of human populations in local ecosystems, factors affecting population growth, and human adaptability to environmental stress. Detailed consideration of case studies of small-scale societies in different ecosystems. Prereqs., ANTH 2010 and 2020, or EBIO 1210 and 1220. Same as ANTH 5150. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4170 (3) Primate Evolutionary Biology

Focuses on the fossil record of nonhominoid primates. Special emphasis placed on delineating the origins of the order Primates, the origins of the primate semiorders Strepsirhini and Haplorhini, and the adaptations of extinct primates in light of our understanding of the modern primate adaptive radiations. Prereqs., ANTH 2010 or EBIO 1210. Same as ANTH 5170. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4180 (3) Anthropological Perspectives: Contemporary Issues

Students read, discuss, and write critical evaluations of contemporary publications in anthropology. Identifies basic themes that inform major anthropological perspectives. Students then bring these perspectives to bear on issues currently facing the human species. May be repeated up to 6 total credit hours. Restricted to junior or senior Anthropology majors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4210 (3) Southwestern Archaeology

Explores the prehistory of the American Southwest from the earliest entry of humans into the area to the Spanish entrada. Focuses on important themes in cultural development: the adoption of agricultural strategies, sedentism, population aggregation, population movement, and social complexity. Prereq., ANTH 2200. Same as ANTH 5210. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4220 (3) From Olmec to Aztec: The Archaeology of Mexico

Examines the archaeology of Mexico from the initial peopling of the Americas to the Spanish conquest of the Aztec empire. Studies origins of complex societies; ancient Mexican cities, states, and empires; religion and politics; trade and interaction; ecology and economy; and social organization. Prereq., ANTH 2200. Restricted to juniors or seniors. Same as ANTH 5220. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4224 (3) Archaeology of the Maya and Their Neighbors

Begins with the environment and describes the earliest inhabitants and the Olmec civilization, then shifts to the earliest Maya and the emergence and collapse of classic Maya civilization. Compares and contrasts the societies of lower Central America. Prereq., ANTH2200. Same as ANTH 5224. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4240 (3) Geoarchaeology

Applies geological principles and instruments to help solve archaeological problems. The focus is on site formation processes, soils, stratigraphy, environments, dating, remote sensing, and geophysical exploration. Environmental and ethical considerations are included. Prereq., ANTH 2200. Same as ANTH 5240. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ANTH

ANTH-4270 (3) Plains Archaeology

Archaeological evidence for Native American ways of life on the North American Great Plains from the initial peopling of the region into the 19th century. Restricted to students with 57-180 credits (Junior or Senior). Prereq., ANTH 2200. Same as ANTH 5270. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-4330 (3) Human Ecology: Archaeological Aspects

Surveys archaeological approaches to ecology, economy, and landscape: glaciation, geomorphology, and other physical processes creating and affecting sites and regions; environmental reconstruction; theories of human-environment interaction; landscape formation by forager, agricultural, and complex societies; and ideologically structured landscapes. Prereq., ANTH 2200. Restricted to sophomores, juniors and seniors. Same as ANTH 5330. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-4340 (3) Archaeological Method and Theory

Surveys archaeological theories and methods within the context of the history of archaeology. Includes archaeological approaches to data recovery, analysis, and interpretation as well as an overview of cultural resources management and ethical issues in contemporary archaeology. Prereq., ANTH 2200. Restricted to juniors and seniors.

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ANTH-4350 (2-6) Archaeological Field and Laboratory Research

Students participate in archaeological field research or conduct laboratory analysis of archaeological materials and data. Students work with faculty on archaeological research projects with a field or lab focus, depending on the project undertaken. May be repeated up to 6 total credit hours. Prereq., ANTH 2200. Restricted to juniors/seniors. Same as ANTH 5350.

College of Arts & Sciences Anthropology

ANTH-4380 (3) Lithic Analysis and Replication

Uses diversity of approaches to the analysis of ancient stone tools, including fracture mechanics, lithic technology, materials, heat treatment, and functional analysis. Percussion and pressure-flaking experiments are performed. Prereq., ANTH 2200. Same as ANTH 5380. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4390 (3) Research Methods in Archaeology I

Method and theory of archaeology, emphasizing the interpretation of materials and data and the relationship of archaeology to other disciplines. Prereq., ANTH 2200 and instructor consent. Same as ANTH 5390. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4420 (3) Archaeology of Ancient Egypt

Archaeology of ancient Egypt in light of recent excavations; the history of excavations of the different sites; and the art of ancient Egypt through time. Restricted to juniors and seniors. Same as ANTH 5420.

College of Arts & Sciences Anthropology

ANTH-4430 (3) Biblical Archaeology

Old Testament history in the light of archaeological investigation; the Old Testament within the framework of the literature of the ancient near East. Same as ANTH 5430.

College of Arts & Sciences Anthropology

ANTH-4440 (3) Egyptian Hieroglyphics 1

Studies the ancient Egyptian language to shed light on the history and cultures of ancient Egypt. Involves reading and translating hieroglyphics into the English language. Same as ANTH 5440.

College of Arts & Sciences Anthropology

ANTH-4500 (3) Cross-Cultural Aspects of Socioeconomic Development

Examines goals of international agencies that support development in underdeveloped countries. Anthropological perspective is provided for such issues as urban planning, health care and delivery, population control, rural development, and land reform. Same as ANTH 5500. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4505 (3) Globalization and Transnational Culture

Covers the historical foundations for contemporary global change, addressing colonialism, global outsourcing, and cultural imperialism, with a particular emphasis on gender, class, and consumerism. Prereq., ANTH 2100. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4510 (3) Applied Cultural Anthropology

Analysis of problems of cultural change due to contacts between people of different cultures. Restricted to senior ANTH or ETHN majors. Same as ETHN 4521 and ANTH 5510.

College of Arts & Sciences Anthropology

ANTH-4520 (3) Symbolic Anthropology

Explores anthropological approaches to the study of symbolic systems, including cosmology, myth, religion, ritual, and art, as well as everyday patterns of metaphor and the presentation of self. Theoretical issues include semiotics, psychoanalysis, structuralism, liminality, and critical theory. Prereq., ANTH 2100 or instructor consent. Same as ANTH 5520. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4530 (3) Theoretical Foundations of Sociocultural Anthropology

Critically examines the pivotal schools of 20th century social theory that have shaped modern sociocultural anthropology, including the ideas of cultural evolutionism, Marxism, Durkheim, Weber, Freud, structuralism, postmodernism, and contemporary anthropological approaches. Includes primary readings and seminar-style discussion. Prereq., ANTH 2100 or instructor consent. Same as ANTH 5530. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4540 (3) Hunters and Gatherers

Explores hunter-gatherer ways of life and the ways in which anthropologists have thought about those ways of life, using lectures, discussion, the professional literature, and film. Topics covered include the history of hunter-gatherer research, relations between this research and archaeological studies of the human past, critiques of classic hunter-gatherer studies, and the current status of hunting and gathering peoples. Prereqs., ANTH 2010, 2020, 2100 and 2200. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4560 (3) North American Indian Acculturation

Comprehensive survey of changes in the native cultures of America north of Mexico caused by occupation of the continent by Old World populations, including a review of processes of contact, environmental changes, changes in major institutions, the nature of federal/state administration, the reservation system, and contemporary developments. Restricted to senior ANTH or ETHN majors. Same as ETHN 4563 and ANTH 5560. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Anthropology

ANTH-4570 (3) Anthropology of Fishing

Examines fishing methods, peoples, societies, and cultures, emphasizing anthropology's role in shaping fisheries management and development policy. Same as ANTH 5570. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4580 (3) The Holocaust: An Anthropological Perspective

Focuses on the Holocaust during the Third Reich, which involved the murder of millions of people, including six million Jews. Reviews the Holocaust's history, dynamics, and consequences as well as other genocides of the 20th century, using an anthropological approach. Restricted to juniors/seniors. Same as JWST 4580. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4610 (3) Medical Anthropology

Cultural factors determine states of health and illness in both Western and non-Western societies. The transition from traditional to modern status creates new problems including population growth, aging, changing patterns of morbidity, mortality and health care, and new socioeconomic consequences. Restricted to students with 57-180 credits (Junior or Senior). Prereq., ANTH 2100. Same as ANTH 5610. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4620 (3) Nationalism and Cultural Citizenship

Explores the nature of ethnic conflict, nationalism, and cultural citizenship in different contexts, including the United States. Is the nation-state dead? What effect do extranational and transnational organizations/institutions (e.g., European Union) have on the development of nationalism? Through the exploration of contemporary theory and case studies, this class will address these important contemporary concerns. Prereq., ANTH 2100. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4630 (3) Nomadic Peoples of East Africa

Examines the issues of current concern in the study of East African pastoral peoples. The first half of the course is devoted to historical perspectives and the second half explores the transition from subsistence to market oriented economies. Restricted to junior and senior ANTH majors. Same as ANTH 5630.

College of Arts & Sciences Anthropology

ANTH-4690 (3-6) Anthropology of Tibet

Explores the culture of Tibet in both historical and thematic manners, considering the long-term development of Tibetan cultural practices and institutions as well as many of the abrupt changes introduced to Tibet in the 20th century. Topics covered include region, politics, gender, warfare, poetry and literature, and life under Chinese rule and as refugees around the world. Prereq., ANTH 2100. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Anthropology (ANTH) majors only.

College of Arts & Sciences Anthropology

ANTH-4710 (3) Departmental Honors in Anthropology 1

Course work built around theme of research design as a means of integrating previous training in the field of anthropology as well as providing an opportunity to perform creative scientific investigations. The course prepares students to write an honors thesis in ANTH 4720. Required of students doing Anthropology departmental honors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Anthropology

ANTH-4720 (3) Departmental Honors in Anthropology 2

Continuation of ANTH 4710. Prereq., ANTH 4710.

College of Arts & Sciences Anthropology

ANTH-4730 (3) Latin American Politics and Culture through Film and Text

Introduces students to the political cultures and societies of Latin America. Through historical and ethnographic text, and documentary and non-documentary cinema, this course will explore class relations, ideology, and resistance from the conquest to the present. Restricted to students with 57-180 credits (Junior or Senior). Prereq., ANTH 2100. Same as ANTH 5730. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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ANTH

ANTH-4740 (3) Peoples and Cultures of Brazil

Thematically surveys theoretical and ethnographic issues that have been important in understanding Brazil. Read and write critically about textual and visual representations of Brazil presented in the course. Prereq., ANTH 2100; three or more cultural anthropology courses recommended. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-4750 (3) Culture and Society in South Asia

Intensive analysis of major issues in anthropological research on South Asia (India, Pakistan, Bangladesh, Nepal, and Sri Lanka), including kinship, gender, marriage, caste system, religion and ritual, ethnic conflict, and social change. Prereq., ANTH 2100 or instructor consent. Same as ANTH 5750. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-4760 (3) Ethnography of Southeast Asia and Indonesia

Introduces the historical, political, and cultural dimensions of Southeast Asia, focusing primarily on Malaysia, the Philippines, Singapore, and Indonesia, with some coverage of mainland Southeast Asia. Prereq., ANTH 2100. Restricted to juniors or seniors. Same as ANTH 5760. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-4770 (3) Anthropology of Tourism

Introduces students to anthropological theories on tourism and considers those theories in the contexts of the varied sites and forms of tourism practiced around the world today. We will ask: why do people tour? Where do they go? And most centrally: How do the hosts to tourism feel about these outside visitors? Having been exposed to questions of globalization, development, belonging, race, gender, and desire, students will then be asked to reflect upon and theorize their own touristic experiences. Recommended prereq., ANTH 2100. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Anthropology

ANTH-4800 (3) Language and Culture

Same as LING 4800.

College of Arts & Sciences Anthropology

ANTH-4840 (1-6) Independent Study

For upper-division undergraduate students. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Anthropology

ANTH-4910 (1-3) Teaching Anthropology

Practicum by special arrangement only. Students learn to teach anthropology by serving as recitation leaders or tutors in introductory courses or as small group leaders in advanced courses. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Anthropology

ANTH-4930 (1-6) Anthropology Internship

Provides academically supervised opportunities for junior and senior anthropology majors and graduate students to work in public and private sectors on projects related to students' career goals. Relates classroom theory to practice. Requires at least 48 hours on the job per credit hour and evidence (paper, employer evaluation, work journal) of significant learning. May be repeated up to 9 total credit hours. Prereqs., ANTH 2010, 2100, and 2200, junior standing, anthropology major with a minimum 3.25 GPA, and departmental consent. Same as ANTH 5930.

College of Arts & Sciences Anthropology

ANTH-5000 (3) Quantitative Methods in Anthropology

Same as ANTH 4000. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5129 (3) Aegean Art and Archaeology

Same as ANTH 4129.

College of Arts & Sciences Anthropology

ANTH-5130 (3) Advanced Osteology

Same as ANTH 4130.

College of Arts & Sciences Anthropology

ANTH-5150 (3) Human Ecology: Biological Aspects

Same as ANTH 4150.

College of Arts & Sciences Anthropology

ANTH-5170 (3) Primate Evolutionary Biology

Same as ANTH 4170.

College of Arts & Sciences Anthropology

ANTH-5210 (3) Southwestern Archaeology

Same as ANTH 4210.

College of Arts & Sciences Anthropology

ANTH-5220 (3) From Olmec to Aztec: The Archaeology of Mexico

Same as ANTH 4220. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5224 (3) Archaeology of the Maya and Their Neighbors

Same as ANTH 4224. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5240 (3) Geoarchaeology

Same as ANTH 4240. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5270 (3) Plains Archaeology

Same as ANTH 4270.

College of Arts & Sciences Anthropology

ANTH-5330 (3) Human Ecology: Archaeological Aspects

Same as ANTH 4330. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

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ANTH

ANTH-5345 (3) Archaeological Theory

Provides an advanced historical introduction to archaeological theory and methods. Designed to help students understand why certain issues have been and are important to the development of archaeology, especially American archaeology. Explores issues within the context of the history of anthropology and American society as a whole. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-5350 (2-6) Archaeological Field and Laboratory Research

Same as ANTH 4350.

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ANTH-5380 (3) Lithic Analysis and Replication

Same as ANTH 4380. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-5390 (3) Research Methods in Archaeology 1

Same as ANTH 4390. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-5400 (3) Research Methods in Archaeology 2

Focuses on the design of research including constructing empirical arguments and testing them, data gathering, site formation processes, field strategies (archival resources, mapping, field survey, surface collecting/recording, excavation and preliminary analysis) and artifact analysis as it relates to research design.

College of Arts & Sciences Anthropology

ANTH-5420 (3) Archaeology of Ancient Egypt

Same as ANTH 4420.

College of Arts & Sciences Anthropology

ANTH-5430 (3) Biblical Archaeology

Same as ANTH 4430.

College of Arts & Sciences Anthropology

ANTH-5440 (3) Egyptian Hieroglyphics 1

Same as ANTH 4440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5460 (3) Archaeology and Contemporary Society

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5500 (3) Cross-Cultural Aspects of Socioeconomic Development

Same as ANTH 4500. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5510 (3) Applied Cultural Anthropology

Same as ANTH 4510.

College of Arts & Sciences Anthropology

ANTH-5520 (3) Symbolic Anthropology

Same as ANTH 4520.

College of Arts & Sciences Anthropology

ANTH-5530 (3) Theoretical Foundations of Sociocultural Anthropology

Same as ANTH 4530. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5560 (3) North American Indian Acculturation

Same as ANTH 4560.

College of Arts & Sciences Anthropology

ANTH-5570 (3) Anthropology of Fishing

Same as ANTH 4570. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5600 (3) Human Ecology: Cultural Aspects

Reviews and critically examines the major theoretical perspectives for understanding the relationship between human social behavior and the environment developed in the social sciences, especially anthropology, over the last 100 years.

College of Arts & Sciences Anthropology

ANTH-5610 (3) Medical Anthropology

Same as ANTH 4610.

College of Arts & Sciences Anthropology

ANTH-5630 (3) Nomadic Peoples of East Africa

Same as ANTH 4630.

College of Arts & Sciences Anthropology

ANTH-5730 (3) Latin American Politics and Culture through Film and Text

Same as ANTH 4730.

College of Arts & Sciences Anthropology

ANTH-5750 (3) Culture and Society in South Asia

Same as ANTH 4750.

College of Arts & Sciences Anthropology

ANTH-5760 (3) Ethnography of Southeast Asia and Indonesia

Same as ANTH 4760. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5770 (3) Core Course---Archaeology

Provides a graduate-level overview of analytic issues relevant to all phases of archaeological research and of the diversity of theoretical perspectives within the field as a whole. Course is required for all first-year graduate students in anthropology. Prereq., graduate status in anthropology. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-5780 (3) Core Course-Cultural Anthropology

Provides an intense, graduate-level introduction to the discipline of cultural anthropology, with an emphasis upon critically assessing those methods, theories, and works that have shaped the field from the 19th century to the present time. Required of all first-year graduate students in anthropology. Restricted to anthropology graduate students or instructor consent. Prerequisites: Restricted to Graduate Students only.

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ANTH-5785 (3) Advanced Seminar in Cultural Anthropology

Details the history of theory and practice in contemporary cultural anthropology, considering the development of major theoretical schools of thought and the integration of general social theory within anthropology. Required of masters students in cultural anthropology. Restricted to ANTH graduate students or instructor consent. Prerequisites: Restricted to Anthropology graduate students only.

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ANTH-5790 (3) Core Course---Biological Anthropology

Discusses how biological anthropologists use evidence and concepts from evolutionary theory, human biology, and ecology to understand the evolution, diversification, and adaptation of human populations. Required of all first-year graduate students in anthropology. Prereq., graduate status in anthropology. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Anthropology](#)

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ANTH

ANTH-5795 (3) Proseminar in Anthropology

Introduces incoming first-year graduate students to the history and current state of scholarship in anthropology from across the subdisciplines, through introduction to the research of individual faculty in the department. Required of all incoming graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-5840 (1-6) Guided Study

Directed individual research based on a specific area of specialization. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-5930 (1-6) Anthropology Internship

Same as ANTH 4930.

[College of Arts & Sciences](#) [Anthropology](#)

ANTH-6150 (3) Critical and Theoretical Issues in Museums

Investigates key problems facing museum institutions and studies the staging and representation of historical knowledge, the ethics of

collecting and display, the changing nature and uses of historical evidence, and relations between curatorial practice, collecting, and field work. Critically examines different approaches to museums and museology in various disciplines, both past and present. Prereq., MUSM 5011 or instructor consent. Same as MUSM 6150, HIST 6150, and ARTH 6150. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-6320 (3) Linguistic Anthropology

Serves as an advanced introduction to the empirical and theoretical foundations of contemporary linguistic anthropology, with special emphasis on the ways in which culture and society emerge semiotically through language and discourse. Same as LING 6320.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-6940 (1) Master's Candidate for Degree

College of Arts & Sciences Anthropology

ANTH-6950 (1-6) Master's Thesis

College of Arts & Sciences Anthropology

ANTH-7000 (3) Seminar: Current Research Topics in Cultural Anthropology

Discusses current research and theoretical issues in the field of cultural anthropology. May be repeated up to 6 total credit hours.

Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-7010 (3) Seminar: Contemporary Theory in Cultural Anthropology

Addresses current theoretical perspectives in cultural anthropology and controversies surrounding them. Discusses science, history, interpretation, and postmodernism. Includes the relationship between theory and method as well as the production of ethnography. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Anthropology

ANTH-7020 (3) Seminar: Physical Anthropology

In-depth discussion of selected topics in physical anthropology with emphasis on recent research. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

ANTH-7030 (3) Seminar: Archaeology

Intensive examination of selected theoretical or methodological topics in archaeology. Topics vary with current research emphasis. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

ANTH-7140 (3) Seminar: Archaeology of Selected Areas

Considers archaeology of a specified area, either geographical or topical. Areas selected in accordance with current research interests. May be repeated upto 9 total credit hours.

ANTH-7300 (3) Seminar: Research Methods in Cultural Anthropology

May be repeated up to 6 total credit hours.

ANTH-7620 (3) Seminar: Ethnography and Cultural Theory

Explores how ethnographic writing has evolved over the past century to incorporate different forms of cross-cultural representation and to accommodate new theoretical paradigms. Includes ethnographic authority and reflexivity, as well as embedded theories and blurred genres of cultural research.

ANTH-7840 (1-6) Independent Research

Research aimed at developing a solution to an originally conceived research problem. May be repeated up to 6 total credit hours.

ANTH-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a

detailed discussion of doctoral dissertation credit, refer to the graduate school section.

[College of Arts & Sciences](#) [Anthropology](#)

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APPM

APPM-1340 (3) Calculus 1 with Algebra, Part A

Studies selected topics in analytical geometry and calculus: rates of change of functions, limits, derivatives and their applications. APPM 1340-1345 together are equivalent to APPM 1350. The sequence APPM 1340-1345 is specifically designed for students whose manipulative skills in the techniques of high school algebra and precalculus may be inadequate for APPM 1350. Prereqs., 2 years high school algebra, 1 year geometry, 1 semester trigonometry. Credit not granted for this course and MATH 1150.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-1345 (3) Calculus 1 with Algebra, Part B

Continuation of APPM 1340. Studies selected topics in calculus: derivatives and their applications, integration, differentiation and integration of transcendental functions. Algebraic and trigonometric topics are studied throughout, as needed. Prereq., APPM 1340. Credit not granted for this course and APPM 1350 or MATH 1300.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-1350 (4) Calculus 1 for Engineers

Topics in analytical geometry and calculus including limits, rates of change of functions, derivatives and integrals of algebraic and transcendental functions, applications of differentiations and integration. Prereqs., 2 years high school algebra, 1 year geometry, and 1/2 year trigonometry; or approval by faculty advisor. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, 1310, APPM 1345, or ECON 1088. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

APPM-1360 (4) Calculus 2 for Engineers

Continuation of APPM 1350. Focuses on applications of the definite integral, methods of integration, improper integrals, Taylor's theorem, and infinite series. Prereqs., APPM 1350 or MATH 1300 (min. grade C-). Credit not granted for this course and MATH 2300.

APPM-1710 (3) Tools and Methods for Engineering Computing

Designed for students with little or no programming background. Students learn procedural and object-oriented programming through development of games, simulations, and animations using Flash/ActionScript, VB/Excel, Java, MATLAB, and real-world applications. Activities are oriented toward smaller projects that address topics in beginning science, engineering, and mathematics courses. Students gain practical, applicable skills. Same as ATLS 1710.

APPM-2350 (4) Calculus 3 for Engineers

Covers multivariable calculus, vector analysis, and theorems of Gauss, Green, and Stokes. Prereq., APPM 1360 or MATH 2300 (min. grade C-). Credit not granted for this course and MATH 2400.

APPM-2360 (4) Introduction to Differential Equations with Linear Algebra

Introduces ordinary differential equations, systems of linear equations, matrices, determinants, vector spaces, linear transformations, and systems of linear differential equations. Prereq., APPM 1360 or MATH 2300 (min. grade C-). Credit not granted for this course and both MATH 3130 and 4430.

APPM-2450 (1) Calculus 3 Computer Lab

Selected topics in analytic geometry and calculus with a focus on symbolic computation using Mathematica. Coreq., APPM 2350.

APPM-2460 (1) Differential Equations Computer Lab

Selected topics in differential equations and linear algebra with a focus on symbolic computation using Mathematica. Coreq., APPM 2360.

College of Arts & Sciences Applied Mathematics

APPM-2750 (4) Java: Training, Mathematical Algorithms, and Mobile Apps

Preparatory course for Java programming. Provides necessary background for Java language: basic object-oriented concepts, analysis, and design. Learn to create Java applets, applications and mobile apps, create graphic context, and identify the key features of Java foundation classes as well as other Java-related technology. Material is taught in the context of mathematical algorithms from calculus. Prereqs., APPM 1350 and programming experience. Recommended prereq., APPM 1360.

College of Arts & Sciences Applied Mathematics

APPM-3010 (3) An Introduction to Nonlinear Systems: Chaos

Both majors and minors in the physical sciences are introduced to classes of tools useful in the analysis of nonlinear systems. Prereqs., APPM 1360 and 2360.

College of Arts & Sciences Applied Mathematics

APPM-3050 (3) Scientific Computing in Matlab

Topics covered include: approximations in computing, computer arithmetic, interpolation, matrix computations, nonlinear equations, optimization, and initial-value problems with emphasis on the computational cost, efficiency, and accuracy of algorithms. The problem sets are application-oriented with examples taken from orbital mechanics, physics, genetics, and fluid dynamics. Prereqs., APPM 1360 and 2360.

College of Arts & Sciences Applied Mathematics

APPM-3170 (3) Discrete Applied Mathematics

Emphasizes selected applications of graph theory to computer science, engineering, operations research, social sciences, and biology. Topics include the basic properties of graphs and digraphs, and their matrix representations. Relates graph properties to applications such as scheduling, architecture of parallel processors, gray codes, traveling salesman problems, and assignment problems. Coreq., APPM 2350 or 2360 and some knowledge of matrix algebra.

College of Arts & Sciences Applied Mathematics

APPM-3310 (3) Matrix Methods and Applications

Introduces linear algebra and matrices, with an emphasis on applications, including methods to solve systems of linear algebraic and linear ordinary differential equations. Discusses vector space concepts, decomposition theorems, and eigenvalue problems. Credit not granted for this course and MATH 3130. Prereq., APPM 2350 or 2360.

College of Arts & Sciences Applied Mathematics

APPM-3350 (3) Advanced Engineering Calculus

Extends the treatment of engineering mathematics beyond the topics covered in Calculus 3 and differential equations. Topics include non-dimensionalization, elementary asymptotics and perturbation theory, Reynold's transport theorem and extensions of Leibnitz's rule, as applied to continuum conservation equations, Hamiltonian formulations, Legendre and Laplace transforms, special functions and their orthogonality properties. Prereq., APPM 2350 and 2360 or equivalent.

College of Arts & Sciences Applied Mathematics

APPM-3570 (3) Applied Probability

Studies axioms, counting formulas, conditional probability, independence, random variables, continuous and discrete distribution, expectation, moment generating functions, law of large numbers, central limit theorem, Poisson process, and multivariate Gaussian distribution. Prereq., APPM 2350 or MATH 2400. Credit not granted for this course and ECEN 3810 or MATH 4510.

College of Arts & Sciences Applied Mathematics

APPM-4120 (3) Introduction to Operations Research

Studies linear and nonlinear programming, the simplex method, duality, sensitivity, transportation and network flow problems, some constrained and unconstrained optimization theory, and the Kuhn-Tucker conditions, as time permits. Prereqs., APPM 3310 or MATH 3130. Same as APPM 5120 and MATH 4120.

College of Arts & Sciences Applied Mathematics

APPM-4350 (3) Methods in Applied Mathematics: Fourier Series and Boundary Value Problems

Reviews ordinary differential equations, including solutions by Fourier series. Physical derivation of the classical linear partial differential equations (heat, wave, and Laplace equations). Solution of these equations via separation of variables, with Fourier series, Fourier integrals, and more general eigenfunction expansions. Prereqs., APPM 2350 and 2360 (min. grade C-). Coreq., APPM 3310. Same as APPM 5350.

APPM-4360 (3) Methods in Applied Mathematics: Complex Variables and Applications

Introduces methods of complex variables, contour integration, and theory of residues. Applications include solving partial differential equations by transform methods, Fourier and Laplace transforms, and Reimann-Hilbert boundary-value problems, conformal mapping to ideal fluid flow and/or electrostatics. Prereqs., APPM 2350 and 2360, or 3310 (min. grade C-) or instructor consent. Same as APPM 5360.

APPM-4380 (3) Modeling in Applied Mathematics

An exposition of a variety of mathematical models arising in the physical and biological sciences. Students' modeling projects are presented in class. Topics may include: GPS navigation, medical imaging, ocean waves, and computerized facial recognition. Prereqs., APPM 2350 and 2360. Recommended prereqs., APPM 3310, 4350 and 4650. Same as APPM 5380.

APPM-4390 (3) Modeling in Mathematical Biology

Investigates how complex systems in biology can be studied using applied mathematics. Examines several case studies which include topics from microbiology, enzyme reaction kinetics, neuroscience, ecology, epidemiology, physiology, and bioengineering. Coreq., APPM 4350 or instructor consent. Same as APPM 5390.

APPM-4440 (3) Undergraduate Applied Analysis 1

Provides a rigorous treatment of topics covered in Calculus 1 and 2. Topics include convergent sequences; continuous functions; differentiable functions; Darboux sums, Riemann sums, and integration; Taylor and power series and sequences of functions. Prereq., APPM 2350 and 2360 or equivalent. Coreq., APPM 3310.

APPM-4450 (3) Undergraduate Applied Analysis 2

Continuation of APPM 4440. Study of multidimensional analysis including n-dimensional Euclidean space, continuity and uniform continuity of functions of several variables, differentiation, linear and nonlinear approximation, inverse function and implicit function theorems, and a short introduction to metric spaces. Prereqs., APPM 2350, 2360, and 4440.

APPM-4520 (3) Introduction to Mathematical Statistics

Examines point and confidence interval estimation. Principles of maximum likelihood, sufficiency, and completeness; tests of simple and composite hypotheses, linear models, and multiple regression analysis. Analyzes variance distribution-free methods. Prereq., MATH 4510 or APPM 3570. Same as APPM 5520 and MATH 4520.

APPM-4540 (3) Introduction to Time Series

Single and multivariable regression, forecasting using regression models, time series models, and modeling with MA, AR, ARMA, and ARIMA models, forecasting with time series models, and spectral analysis. Prereqs., APPM 3570 or MATH 4510, and APPM 4520 or MATH 4520. Same as APPM 5540 and MATH 4540.



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APPM

APPM-4560 (3) Markov Processes, Queues, and Monte Carlo Simulations

Brief review of conditional probability and expectation followed by a study of Markov chains, both discrete and continuous time. Queuing theory, terminology, and single queue systems are studied with some introduction to networks of queues. Uses Monte Carlo simulation of random variables throughout the semester to gain insight into the processes under study. Prereq., APPM 3570 or equivalent. Same as APPM 5560.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-4570 (3) Statistical Methods

Covers discrete and continuous probability laws, random variables; expectations; laws of large numbers and central limit theorem; estimation, testing hypothesis, analysis of variance, regression analysis, and nonparametric methods. Emphasizes applications with an introduction to packaged computer programs. Prereq., APPM 1360 or equivalent Calculus 2 course. Same as APPM 5570.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-4580 (3) Statistical Applications: Software and Methods

Combines statistical methods with practical applications and computer software. Develops commonly used statistical models such as analysis of variance as well as linear and logistic regression. The statistical models are implemented and interpreted in the context of actual data sets using available statistical software. Continuation of APPM 4570. Prereq., APPM 4570 or any course in statistics. Same as APPM 5580.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-4650 (3) Intermediate Numerical Analysis 1

Focuses on numerical solution of nonlinear equations, interpolation, methods in numerical integration, numerical solution of linear systems, and matrix eigenvalue problems. Stresses significant computer applications and software. Prereqs., APPM 3310 or MATH 3130, and knowledge of a programming language. Same as MATH 4650.

College of Arts & Sciences Applied Mathematics

APPM-4660 (3) Intermediate Numerical Analysis 2

Continuation of APPM 4650. Examines numerical solution of initial-value problems and two-point boundary-value problems for ordinary differential equations. Also looks at numerical methods for solving partial differential equations. Prereq., APPM 4650 and knowledge of a programming language. Same as MATH 4660.

College of Arts & Sciences Applied Mathematics

APPM-4720 (1-3) Open Topics in Applied Mathematics

Provides a vehicle for the development and presentation of new topics that may be incorporated into the core courses in applied mathematics. May be repeated up to 6 total credit hours. Prereqs., variable, depending on the topic. See instructor. Same as APPM 5720.

College of Arts & Sciences Applied Mathematics

APPM-4840 (1-3) Reading and Research in Applied Mathematics

Introduces undergraduate students to the research foci of the Department of Applied Mathematics. May be repeated up to 9 total credit hours. Prereq., APPM 3310 or MATH 3130. Recommended prereq., a course in ordinary or partial differential equations.

College of Arts & Sciences Applied Mathematics

APPM-4950 (1-3) Seminar in Applied Mathematics

Introduces undergraduate students to the research foci of the program in applied mathematics. It is also designed to be a capstone experience for the program's majors. May be repeated up to 6 total credit hours. Prereq., APPM 3310 or MATH 3130. Recommended prereq., course in ordinary or partial differential equations. Similar to APPM 4955.

College of Arts & Sciences Applied Mathematics

APPM-5120 (3) Introduction to Operations Research

Same as APPM 4120 and MATH 5120. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5350 (3) Methods in Applied Mathematics: Fourier Series and Boundary Value Problems

Restricted to graduate students. Same as APPM 4350. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5360 (3) Methods in Applied Mathematics: Complex Variables and Applications

Prereq., graduate status in engineering or arts and sciences, or instructor consent. Same as APPM 4360. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5380 (3) Modeling in Applied Mathematics

Same as APPM 4380. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5390 (3) Modeling in Mathematical Biology

Same as APPM 4390. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5430 (3) Methods in Applied Mathematics: Applications of Complex Variables

Reviews basic ideas of complex analysis, including solutions of ODEs and PDEs of physical interest via complex analysis; conformal mapping, including Schwarz-Christoffel transformations and generalizations; computational methods; Riemann-Hilbert problems; and topics in asymptotic methods. Prereq., APPM 4360 or 5360, or instructor consent.

College of Arts & Sciences Applied Mathematics

APPM-5440 (3) Applied Analysis 1

Discusses the elements of basic real and complex analysis, Banach spaces, L_p spaces, and many relevant inequalities. Includes applications of existence and uniqueness of solutions to various types of ordinary differential equations, partial differential equations, and integral equations. Prereqs., APPM 4440 and 4450 or equivalent, or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5450 (3) Applied Analysis 2

Continuation of APPM 5440. Prereq., APPM 5440 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5460 (3) Methods in Applied Mathematics: Dynamical Systems and Differential Equations

Introduces the theory and applications of dynamical systems through solutions to differential equations. Covers existence and uniqueness theory, local stability properties, qualitative analysis, global phase portraits, perturbation theory, and bifurcation theory. Special topics may include Melnikov methods, averaging methods, bifurcations to chaos, and Hamiltonian systems. Prereqs., undergraduate courses equivalent to APPM 2360, 3310, and 4440.

College of Arts & Sciences Applied Mathematics

APPM-5470 (3) Methods of Applied Mathematics: Partial Differential and Integral Equations

Studies properties and solutions of partial differential equations. Covers methods of characteristics, well-posedness, wave, heat and Laplace equations, Green's functions, and related integral equations. Prereqs., APPM 4350 and 4360, or MATH 4430, or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5480 (3) Methods of Applied Mathematics: Approximation Methods

Covers asymptotic evaluation of integrals (stationary phase and steepest descent), perturbation methods (regular and singular methods, and inner and outer expansions), multiple scale methods, and applications to differential and integral equations. Prereq., APPM 5470 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-5520 (3) Introduction to Mathematical Statistics

Prereq., one semester calculus-based probability course, such as MATH 4510 or APPM 3570. Same as APPM 4520 and MATH 5520.
Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-5540 (3) Introduction to Time Series

Same as APPM 4540 and MATH 5540. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-5560 (3) Markov Processes, Queues, and Monte Carlo Simulations

Prereq., APPM 3570 or equivalent. Same as APPM 4560. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-5570 (3) Statistical Methods

Same as APPM 4570. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-5580 (3) Statistical Applications: Software and Methods

Continuation of APPM 5570. Prereq., one semester of statistics. Same as APPM 4580. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-5600 (3) Numerical Analysis 1

Solution of nonlinear algebraic equations, interpolation, integration, approximation, and numerical linear algebra. Prereq., APPM 3310 or MATH 3130, and experience with a scientific programming language. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Applied Mathematics](#)



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APPM

APPM-5610 (3) Numerical Analysis 2

Numerical linear algebra, eigenvalue problems, optimization problems, and ordinary and partial differential equations. Prereq., APPM 5600 or MATH 5600. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-5720 (1-3) Open Topics in Applied Mathematics

Same as APPM 4720.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-6470 (3) Advanced Partial Differential Equations

Continuation of APPM 5470. Advanced study of the properties and solutions of elliptic, parabolic, and hyperbolic partial differential equations. Topics include the study of Sobolev spaces and variational methods as they relate to PDEs, and other topics as time permits. Prereq., APPM 5470. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Applied Mathematics](#)

APPM-6520 (3) Mathematical Statistics

Emphasizes mathematical theory of statistics. Topics include distribution theory, estimation and testing of hypotheses, multivariate analysis, and nonparametric inference, all with emphasis on theory. Prereq., APPM 5520 or MATH 5520.

College of Arts & Sciences Applied Mathematics

APPM-6550 (3) Introduction to Stochastic Processes

Systematic study of Markov chains and some of the simpler Markov processes including renewal theory, limit theorems for Markov chains, branching processes, queuing theory, birth and death processes, and Brownian motion. Applications to physical and biological sciences. Prereqs., MATH 4001, MATH 4510 or APPM 3570, or APPM 4560, or instructor consent. Same as MATH 6550.

College of Arts & Sciences Applied Mathematics

APPM-6610 (3) Introduction to Numerical Partial Differential Equations

Covers finite difference, finite element, finite volume, pseudo-spectral, and spectral methods for elliptic, parabolic, and hyperbolic partial differential equations. Prereq., APPM 5600. Recommended prereq., APPM 5610 or graduate numerical linear algebra. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-6640 (3) Multigrid Methods

Develops a fundamental understanding of the principles and techniques of the multigrid methodology, which is a widely used numerical approach for solving many problems in such diverse areas as aerodynamics, astrophysics, chemistry, electromagnetics, hydrology, medical imaging, meteorology/oceanography, quantum mechanics, and statistical physics.

College of Arts & Sciences Applied Mathematics

APPM-6900 (1-6) Independent Study

Introduces graduate students to research foci of the Department of Applied Mathematics. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-6940 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-6950 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-7100 (3) Mathematical Methods in Dynamical Systems

Covers dynamical systems defined by mappings and differential equations. Hamiltonian mechanics, action-angle variables, results from KAM and bifurcation theory, phase plane analysis, Melnikov theory, strange attractors, chaos, etc. Prereq., APPM 5460. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-7300 (3) Nonlinear Waves and Integrable Equations

Includes basic results associated with linear dispersive wave systems, first-order nonlinear wave equations, nonlinear dispersive wave equations, solitons, and the methods of the inverse scattering transform. Prereqs., APPM 5470--5480, PHYS 5210, or instructor consent.

College of Arts & Sciences Applied Mathematics

APPM-7400 (1-3) Topics in Applied Mathematics

Provides a vehicle for the development and presentation of new topics with the potential of being incorporated into the core courses in applied mathematics. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-7900 (1-3) Independent Study

Introduces graduate students to research foci of the Department of Applied Mathematics. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-8000 (1) Colloquium in Applied Mathematics

Introduces graduate students to the major research foci of the Department of Applied Mathematics. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-8100 (1) Seminar in Dynamical Systems

Introduces advanced topics and research in dynamical systems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-8300 (1-3) PDE and Analysis Seminar

Introduces the core methods in the analysis of nonlinear partial differential and integral equations or systems to graduate students. Provides a vehicle for the development, presentation, and corporative research of new topics in PDE and analysis. Prereq., APPM 5440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-8600 (1) Seminar in Computational Mathematics

Introduces advanced topics and research in computational mathematics. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

APPM-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. No more than 10 credit hours may be taken in any one semester. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Applied Mathematics

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ARAB

ARAB-1010 (5) Beginning Arabic 1

Introduces students to speaking, listening, reading, and writing skills in the standard means of communication in the Arab world. This course is proficiency-based. All activities within the course are aimed at placing the student in the context of the native-speaking environment from the very beginning.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Arabic](#)

ARAB-1011 (3) Introduction to Arab and Islamic Civilizations

Provides an interdisciplinary overview of the cultures of the Arabic-speaking peoples of Southwest Asia and North Africa from the rise of Islam in the 7th century to the present. Readings include historical, religious, literary and cultural texts from both the medieval and modern eras. Taught in English. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Arabic](#)

ARAB-1020 (5) Beginning Arabic 2

Continuation of ARAB 1010. Prereq., ARAB 1010 (min grade C) or placement.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Arabic](#)

ARAB-2110 (3) Intermediate Arabic 1

Proficiency-based course emphasizes speaking, listening, reading, and writing. Covers a variety of topics. Students give classroom presentations and write short essays in Arabic. Speaking ability is assessed through an oral proficiency interview. Prereq., ARAB 1020 (min grade C), or placement. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-2120 (3) Second Year Arabic 2

Continuation of ARAB 2110. Prereq., ARAB 2110 (min grade C) or placement.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3110 (3) Advanced Arabic I

Designed to train students further in the four language skills (writing, speaking, reading, listening/comprehension) at an advanced level. Enables students to acquire a better and broader understanding of Arabic culture and texts drawn from various genres of Arabic letters. Prereq., ARAB 2120 (min. grade C). Formerly ARAB 3010.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3120 (3) Advanced Arabic II: Issues in Arabic Language and Culture for Business

Continues training in the four language skills (writing, speaking, reading, listening/comprehension) at an advanced level. Enables students to acquire a better and broader understanding of Arabic culture and texts drawn from various genres of Arabic letters. Prereq., ARAB 3010 or 3110 (min. grade C). Formerly ARAB 3020.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3230 (3) Islamic Culture and the Iberian Peninsula

Examines Islamic, especially Arab, culture and history as it relates to the Iberian Peninsula from 92 Ah/711 Ce to the present. Taught in English. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3330 (3) The Arabic Novel

Focusing on the origins and development of the novel genre in the Arabic tradition, this course examines both the aesthetic qualities of the genre as an artistic form and the ways that it has depicted and intervened in the modern social, political, and cultural upheavals that have shaped the Arab world in the 20th century. Authors include Najib Mahfuz, Abd al Rahman Munif, Hanan al-Shaykh, and Ghassan Kanafani. Taught in English.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3340 (3) Representing Islam

Explores the cultural politics of representations of the Arab and Islamic worlds both with an emphasis on literary representations of the Islamic world in travel narratives and novels from both the West and the Arab world. Examines historical, anthropological, and visual texts to consider how Islam has been narrated in colonial European imaginings about the Islamic world as well as contemporary representations.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-3350 (3) Narrating the City: Literary Mappings of the Urban Landscape

Examines literary narratives primarily from the Arabic tradition through focusing on the relationship of literature to the development and transformations of cities and urban spaces in the modern period. Begins with readings of 19th century European narratives that chronicle the changing space of the modern city followed by urban narratives from the Arabic literary tradition in order to comparatively examine how "universal" processes of modernization, development, and globalization in the modern world have been narrated. Writers include Mahfouz, Munif, al-Takarli, al-Aswani, Celik, Abu Lughod. Taught in English.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-4250 (3) Arabic Media

Designed to provide students with advanced Arabic language skills for use in the media. By negotiating authentic materials in Arabic, students will gain a perspective on global issues in the Arab and Islamic world and will attain a better awareness of Arab and Islamic culture. Prereq., three years of Arabic or equivalent, or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Arabic

ARAB-4840 (1-3) Independent Study

Departmental approval required. May be repeated up to 7 total credit hours.

College of Arts & Sciences Asian Languages & Civilizations Arabic



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ARCH

ARCH-3114 (3) History and Theories of Architecture 1

Surveys architecture, landscape architecture, and urban design from 3000 B.C. to A.D. 1400, emphasizing developments in the Western world. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ENVD 3100, 3115. Prerequisites: Restricted to Environmental Design or College of Engineering and Applied Sciences majors only.

[Program in Environmental Design](#) [Architecture](#)

ARCH-3214 (3) History and Theories of Architecture 2

Surveys architecture, landscape architecture, and urban design from A.D. 1400 to the present, emphasizing developments in the Western world. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design or College of Engineering and Applied Sciences majors only.

[Program in Environmental Design](#) [Architecture](#)

ARCH-4010 (3) Architectural Appreciation and Design

Introduces basic processes and principles of architectural design. Provides a basis for understanding and evaluating architecture. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Architectural Engineering (AREN) majors only.

[Program in Environmental Design](#) [Architecture](#)



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AREN

AREN-1027 (3) Engineering Drawing

Introduces engineering drawing including sections and dimensioning, print readings, and computer 3D modeling. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Engineering Physics (EPEN), Architectural (AREN) or Civil (CVEN) Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

AREN-1037 (3) Building Information Modeling

Learn to develop and communicate physical information using three-dimensional graphical systems including Computer-Aided Design (CAD) and Building Information Models (BIM). Learn to dimension and scale physical systems and interpret scaled drawings. Get experience with industry standard software tools (REVIT) used to produce design and construction documents, and apply BIM and CAD tools in a project producing scaled 3-D drawings.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

AREN-1316 (2) Introduction to Architectural Engineering

Surveys the broad subject of architectural engineering and professional practices. Includes professional design services, design documents, methods of construction delivery, materials for construction, codes and standards, life safety, professional ethics, structural systems, mechanical systems, electrical systems, and building systems integration. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Miscellaneous](#)

AREN-2050 (3) Engineering Systems for Buildings

Provides an overview of the building mechanical and electrical systems, including HVAC, plumbing, solar, power distribution, illumination, life safety, transportation, and noise control systems. Emphasizes sustainable (green) building practices. Includes a team investigation of existing commercial building. Prereqs., AREN 1027 and 2406. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-2110 (3) Thermodynamics

Explores fundamental principles of thermodynamics, including first and second law of thermodynamics, thermophysical properties, power and refrigeration cycles, gas mixtures and psychrometrics. Computing in the context of engineering problems is introduced. Prereq., PHYS 1110 or equivalent. Coreq., APPM 1360 or equivalent. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Architectural (AREN), Civil (CVEN), or Environmental (EVEN) Engineering majors or Civil/Environmental (C-EVENCVEN) Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-2120 (3) Fluid Mechanics and Heat Transfer

Explores fundamental principles of fluid dynamics and heat transfer. Topics include fluid statics, momentum, and energy conservation, laminar and turbulent viscous flow, convection heat transfer, conduction heat transfer, heat exchangers, and heat transfer. Prereqs., APPM 2350 and AREN 2110. Coreq., APPM 2360.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-2406 (3) Introduction to Building Construction

Covers the broad subject of building materials, assembly details, and their method of construction. Includes codes and classifications, foundations, wood, steel, concrete, masonry, cladding, doors and windows, interiors, and finishes. Formerly AREN 3406. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Architectural Engineering (AREN) majors only.

College of Engineering & Applied Science | Civil Engineering | Construction

AREN-2830 (1-3) Special Topics

Supervised study of special topics of interest to students under instructor guidance. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Special Topics

AREN-3010 (3) Mechanical Systems for Buildings

Lecture course on the analysis and design of buildings and their systems to satisfy the requirements for a comfortable and healthy indoor environment. Examines psychometrics, thermal comfort, building heating and cooling loads, fluid flow basics, and HVAC components and systems. Prereqs., AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852, or MCEN 3012, or ASEN 2002) and AREN 2050. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite courses of AREN 2120 (or MCEN 3021 & 3022) and AREN 2110 (or GEEN 3852 or MCEN 3012 or ASEN 2002) and AREN 2050. Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-3050 (3) Environmental Systems for Buildings 1

Introduces the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Design majors only.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-3060 (3) Environmental Systems for Buildings 2

Continues the operation and design of building systems for climate control, water and drainage, life safety, electrical supply, illumination, transportation (elevators and escalators), and noise control. For non-engineering majors.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-3130 (3) Building Energy Laboratory

Laboratory course offering both hands-on experience with building and renewable energy systems and exposing students to the fundamentals of measurements, instrumentation, data acquisition, and statistical data analysis. Measurements and experiments will allow evaluation of building construction material, electrical equipment, lighting systems, heating and cooling systems, and solar energy devices, among others. Prereq., AREN 3010.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-3140 (3) Illumination Laboratory

Introduces the measurement of photometric and psychophysical quantities used in lighting. Experience is acquired in using light measurement instruments to evaluate lighting equipment and luminous environments. Prereq., AREN 3540.

College of Engineering & Applied Science Civil Engineering Building Systems Engineering

AREN-3540 (3) Illumination I

Studies the fundamentals of architectural illumination. Introduces and applies basic principles and vocabulary to elementary problems in the lighting of environments for the performance of visual work and the proper interaction with architecture. Prerequisites: Requires prerequisite courses of GEEN 1300 or CSCI 1300 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-4010 (3) HVAC System Modeling and Control

Engineering course devoted to building automation and control systems. Topics include HVAC control technology and strategies, measurement and device technologies, analysis and modeling of dynamic systems, simulation of conventional and advanced control approaches, assessment of control loop performance, and hands-on direct digital control (DDC) programming exercises as used in current building control practice. Prereq., AREN 4110. Same as CVEN 5010.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-4035 (3) Architectural Structures 1

Analyzes basic structural systems. Covers principles of mechanics and mechanical properties of materials and analysis and design of trusses, arches, and cable structures. For nonengineering students; does not apply toward an engineering degree. Prereq., PHYS1110, and APPM 1350 or MATH 1300. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Design majors only.

College of Engineering & Applied Science | Civil Engineering | Structures

AREN-4045 (3) Architectural Structures 2

Analyzes basic structural systems. Covers principles of mechanics as applied to the design of flexural members, columns, continuous beams, and rigid frames. For nonengineering students; does not apply toward an engineering degree. Prereq., AREN 4035.

College of Engineering & Applied Science | Civil Engineering | Structures

AREN-4110 (3) HVAC Design 1

Applies engineering principles to the design of heating, ventilating, and air conditioning (HVAC) systems for buildings. Covers HVAC systems description, load estimating, applied psychometrics, coils and heat exchangers, air and water distribution systems, and primary equipment and systems. Prereq., AREN 3010. Same as CVEN 5110.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-4315 (3) Design of Masonry Structures

Covers modern masonry construction; properties and behavior of the reinforced masonry component materials, clay and concrete masonry units, mortar, grout, and steel reinforcement; vertical and lateral load types and intensities; and design of reinforced masonry walls, beams, and columns by working stress and strength design methods. Prereq., CVEN 3525.

College of Engineering & Applied Science | Civil Engineering | Structures

AREN-4317 (5) Architectural Engineering Design

Provides a capstone experience to AREN students. Students design a modest commercial building and complete an integrated engineering design of the building systems executed for the conceptual, schematic, and design development phases. Students' teams work on structural, mechanical, electrical/lighting, and construction engineering management design. Each stage produce a professional-quality design document. Faculty and industry mentors participate in the teaching and evaluation of designs. Prerequisites: Requires pre-requisite courses of AREN 3010, CVEN 3246, CVEN 3525, and AREN 3540 (all min grade C-). Requires a pre-requisite or co-requisite course of AREN 4570.

College of Engineering & Applied Science | Civil Engineering | Miscellaneous

AREN-4420 (3) Cost Engineering

Focuses on conceptual cost estimating and evaluation techniques to support engineering design. Topics include assemblies estimating, probabilistic estimating, value engineering, constructability concepts, and life-cycle costing. Prereq., CVEN 3246. Prerequisites: Requires pre-requisite course of CVEN 3246 (min grade C-).

College of Engineering & Applied Science | Civil Engineering | Construction

AREN-4466 (3) Construction Planning and Scheduling

Comprehensively studies project management activities for scheduling and delivering construction projects, including the contractor's role in preconstruction and construction activities and the application of CPM/PERT techniques to the planning, scheduling, and control of a construction project. Prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science | Civil Engineering | Construction

AREN-4540 (3) Exterior Lighting Systems

Engages students in exploring and solving lighting problems for exterior environments. Provides an understanding of the design criteria and lighting equipment used in three primary exterior applications: parking lots and roadways, floodlighting of buildings, and sports facilities. Prereq., AREN 3540. Recommended prereqs., AREN 3140 and 4550. Same as CVEN 5540. Taught intermittently.

College of Engineering & Applied Science | Civil Engineering | Building Systems Engineering

AREN-4550 (3) Illumination 2

Applies the principles studied in Illumination 1. Provides further study in architectural lighting design methods. Uses lighting studio work to develop a broad knowledge of lighting equipment, design methods, and their application in a series of practical design problems in modern buildings. Prereq., AREN 3540. Prerequisites: Requires pre-requisite course of AREN 3540 (min grade C-).

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Building Systems Engineering](#)

AREN-4560 (3) Luminous Radiative Transfer

Teaches fundamentals of radiative exchange as applied to illumination engineering. Describes and uses principal numerical techniques for radiative transfer analysis. Applies techniques to lighting design and analysis. Taught intermittently. Prerequisites: Requires pre-requisite course of AREN 3540.

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AREN

AREN-4570 (3) Building Electrical Systems Design 1

Introduces the generation and distribution of electrical power. Focuses on understanding the loads, control, and protection of secondary electrical distribution systems in building. Applies the national electric code to residential and commercial buildings. Prereq., ECEN 3030. Prerequisites: Requires pre-requisite course of ECEN 3030 (min grade C-).

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Building Systems Engineering](#)

AREN-4580 (3) Daylighting

Applies the fundamental principles of illumination engineering to architectural daylighting design, exploring the quantitative methods and tools used to develop daylighting designs and evaluate their performance. Topics include solar and sky modeling, luminous radiative transfer, design methods, and controls for integration with electric lighting systems. Prereq., AREN 3540. Prerequisites: Requires pre-requisite course of AREN 3540 (min grade C-).

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Building Systems Engineering](#)

AREN-4590 (3) Computer Graphics in Lighting Engineering

Studies the numerical methods and computer implementation of computer graphics visualization for architectural lighting engineering and design. Implements finite element radiative transfer and ray-tracing in computer programs. Studies the use of computer graphics visualization in lighting analysis. Taught intermittently. Prerequisites: Requires pre-requisite courses of AREN 3540 and 4560.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Building Systems Engineering](#)

AREN-4830 (1-3) Special Topics for Seniors/Grads.

Supervised study of special topics of interest to students under instructor guidance. May be repeated up to 12 total credit hours. Prereq., instructor consent required.

College of Engineering & Applied Science Civil Engineering Special Topics

AREN-4836 (1-3) Special Topics For Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

College of Engineering & Applied Science Civil Engineering Special Topics

AREN-4837 (3) Special Topics for Seniors/Grads

Supervised study of special topics of interest to students under instructor guidance. Prereq., instructor consent.

College of Engineering & Applied Science Civil Engineering Special Topics

AREN-4849 (1-3) Independent Study

Offers an independent, in-depth study, research, or design in a selected area of architectural engineering. Offerings are coordinated with individual faculty. Students should consult the Department of Civil, Environmental, and Architectural Engineering. Numbered AREN 4840 through AREN 4849.

College of Engineering & Applied Science Civil Engineering Special Topics



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ARSC

ARSC-1000 (3-4) Expository Writing

Develops college-level reading, writing, and thinking. Students are asked to read critically, then construct written responses that are revised and crafted into more formal essays and position papers. Offered through the Student Academic Services Center. Prereq., program coordinator consent required.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1080 (4) College Writing and Research

Introduces academic and professional genres through the research and inquiry process. Students practice close reading, oral presentation, drafting, synthesis, analysis and research skills in discussion, writing workshops, and one-on-one conferences. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1081 (1) SASC Coseminar: College Writing and Research

One-credit seminar provides extended instruction in written composition for students enrolled in ARSC 1080. Graded assignments enrich students' understanding of genre, organization, research skills, and grammar. Coreq., ARSC 1080.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1150 (3) Writing in Arts and Sciences

Emphasizes the development of effective writing skills with instruction provided in expository and analytical writing. Reviews basic elements of grammar, syntax, and composition as needed. May be repeated up to 6 total credit hours. Approved for GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Writing](#)

ARSC-1200 (1-3) Topics in Arts and Sciences

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-1400 (1) MASP Coseminar: Chemistry 1 & 2

Supplements and strengthens student experiences in chemistry. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Miramontes Arts & Sciences Pgr](#)

ARSC-1420 (1) MASP Coseminar: Introduction to EEB

Designed to supplement and strengthen student experiences in EBIO 1210 and 1220. Allows particularly gifted students an opportunity to extend their understanding of the subject and possible careers in science. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Miramontes Arts & Sciences Pgr](#)

ARSC-1432 (1) MASP Coseminar: Economics

Designed to supplement and strengthen student experiences in microeconomics. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in social science. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Miramontes Arts & Sciences Pgr](#)

ARSC-1440 (1) MASP Coseminar: Mathematics

Offers an unusual and essential opportunity for students to receive small-group enrichment and reinforcement. Supplements and strengthens student experiences in mathematics, allowing particularly gifted students an opportunity to extend their understanding of the subject in a supportive environment, and to explore possible careers in science. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Miramontes Arts & Sciences Pgr](#)

ARSC-1460 (1) MASP Coseminar: Introduction to Mcd Biology

Supplements and strengthens student experiences in MCDB 1150 and 2150. Allows particularly gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

ARSC-1480 (1) MASP Seminar: Exploration of Public Discourse through the Social Sciences

Fosters an appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, and outside activities illustrate the interconnections between different bodies of knowledge. Emphasizes relationships between the humanities/social sciences and the real world. May be repeated up to 2 total credit hours.

ARSC-1490 (1) MASP Seminar: Activating the Humanities and Social Sciences

Building on ARSC 1480, enhances students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentation, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is on actively using knowledge of humanities and social sciences in a variety of ways. Prereq., ARSC 1480. May be repeated up to 2 total credit hours.

ARSC-1492 (1-3) MASP Research Seminar

Building on ARSP 1490, this course seeks to enhance students' knowledge and appreciation of the humanities and social sciences. Readings, discussions, cooperative learning exercises, workshopping papers and presentations, guest speakers, and outside activities are designed to enhance both students' appreciation of the subject matter and their performance in their regular courses. Emphasis is placed on actively using knowledge of humanities and social science in a variety of ways. May be repeated up to 6 total credit hours.

ARSC-1600 (1) The University of Colorado Experience

Provides an effective transition to the university by giving students a solid base for developing scholarship, citizenship, decision making,

and involvement in their university community. Topics include academic and campus resources, safety, health, and diversity.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-1710 (1) Calculus Bridge Course

Provides motivated pre-calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in pre-calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in high school mathematics. Coreq., MATH 1001/1021.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-1720 (1) SASC Coseminar: Calculus Work Group

This 1-credit seminar provides motivated calculus students with more in-depth and more challenging coverage of material assumed in calculus. Students complete advanced problems that cannot be covered in calculus courses due to time constraints. Mastery of material is emphasized. Prereq., proficiency in pre-calculus mathematics. Recommended prereq., A/B average in pre-calculus sequence. Coreq., MATH1300.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-1800 (3) Methods of Inquiry

Introduces students to methodologies used in different academic disciplines, e.g., how a paleographer dates a manuscript. Course is team-taught. Students must also enroll in two of four co-requisite course sections, all in different areas of the core curriculum. The co-requisite course sections are listed in the online Schedule Planner.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-1810 (1) Open Option Seminar: Academic Exploration and Critical Decision Making

Survey the major exploration process in a guided and intentional way, critically evaluate your strengths and interests, learn decision making skills, and learn academic skills necessary to succeed in a major discipline. Complete the course well equipped to declare a major of interest in a timely fashion and to supplement your degree with study abroad, undergraduate research and/or co-curricular experiences. Offered Pass/Fail only. Restricted to Arts and Sciences Open Option students only. Prerequisites: Restricted to Arts and Sciences Open Option students only.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-2000 (3) Ways of Knowing: Constructions of Knowledge in the Academy and Beyond

Explores different ways of knowing from interdisciplinary, cross-cultural perspectives. Course begins with personal interrogations of students' primary learning modes. It goes on to examine cultural assumptions about schooling, learning and knowledge, juxtaposing western and eastern philosophies of knowing and looking at how gender, race, class, and other categories of identity shape and interpret concepts of knowledge. Restricted to Norlin Scholars only; department consent required. Same as NRLN 2000. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-2274 (3) Peer Counseling

Introduction to basic peer education and counseling theory and techniques. Students learn experientially by practicing a variety of skills in an informal atmosphere. The material learned is valuable to students professionally (as employee or supervisor in any field or as helping professional) regardless of career path. Students increase self-awareness and apply it to their own lives. Offered Fall semesters only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-2400 (1) MASP Coseminar: Organic Chemistry

Supplements and strengthens student experiences in organic chemistry. Allows gifted students an opportunity to extend their understanding of the subject and to explore possible careers in science. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Miramontes Arts & Sciences Pgr](#)

ARSC-2470 (1) MASP Coseminar: Physics 1 and 2

Supplements and strengthens student experiences in physics. Allows particularly gifted students an opportunity to extend their understanding of the subjects and to explore possible careers in science. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Miramontes Arts & Sciences Pgr](#)

ARSC-3001 (6) Social Engagement & Human Rights: The South Africa Model

Examines the concept of reconciliation from a multidimensional and multidisciplinary approach as it specifically contributes to subjects of difference, inequality, and historical legacies of intractable relations. Using an experiential approach, the study of reconciliation is situated in an international environment in which reconciliation is being practiced and later in the United States context. Recommended prereq., any course with substantive race, class, gender, difference, and inequality emphasis. Offered through Study Abroad Program. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Miramontes Arts & Sciences Pgr](#)

ARSC-3100 (3) Multicultural Perspective and Academic Discourse

Teaches students how to write academic papers related to race, class, gender, sexuality, and other areas of cultural identity. Students acquire expertise on issues through readings, guided discussion, and research and practice oral presentation skills, drafting, and workshopping of papers. Prereq., lower level writing course(s) or waiver. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

ARSC-3600 (3) Diversity Issues: Higher Education

Uses Internet dialogue, computing, and media technology to improve communication and develop research and inquiry skills and critical thinking. Race, class, gender, and sexual orientation issues are addressed to foster understanding of university codes of inquiry and modes of interaction in scholarly communities. Prereq., admission to McNair Program, junior standing, minimum GPA of 2.50, and strong interest in graduate school).



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ARSC

ARSC-3650 (3) Diversity Issues in Graduate Education

Guides students through research on diversity and retention issues in graduate education. Participants use Tinto's work on academic and social integration as a conceptual framework. Further, students investigate how specific institutions support diversity goals in their graduate programs. Prereq., admission to McNair Program (minimum 2.50 GPA, three recommendation letters, personal statement, strong interest in graduate school).

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-3700 (1-5) McNair Seminar: Research Design

Multidisciplinary course guiding critical thinking as students design a formal investigation. Includes presenting and writing a prospectus. Students revise the prospectus, creating a proposal for funding the research as well as HRC proposals. May be repeated up to 6 total credit hours. Prereq., admission to McNair Program (junior standing, minimum GPA of 2.50, and a strong interest in graduate school).

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-3935 (1-6) Internship

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-4000 (3) Multimedia Applications in Foreign/Second Language Education

Focuses on knowledge and skills in accessing, evaluating, and integrating technology-assisted, mediated material in the teaching and learning of foreign languages. Also focuses on hands-on design and production of instructional software for foreign languages. Recommended prereq., a language-teaching methodology course. Same as ARSC 5000.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-4040 (1-3) Arts and Sciences Special Topics

Same as ARSC 5040.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-4700 (1-5) The McNair Seminar: Research Practices and Procedures

Within the range of scholarly modes, student researchers examine discipline-specific rationales for evidence and analysis. Lecturers distinguish popular concepts of investigation from scholarly research. Students learn to take great care describing and discussing methods, findings, interpretations, assertions, and conclusions. May be repeated up to 10 total credit hours. Prereq., admission to McNair Program (junior standing, meeting TRIO guidelines, strong interest in graduate school).

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-4750 (3) Social Foundations of Professional Life in Washington DC

In this course, students will gain deep exposure to the historical, cultural, and socio-economic traditions and pressures that drive domestic and international policy making in Washington D.C. Students will read widely, prepare papers, and lead discussions on fundamental aspects of Washington's professional life. Course takes place in the nation's capital and is taken in conjunction with a professional internship.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-4909 (2-6) Senior Thesis for Individually Structured Major

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-4910 (1) McNair Practicum: Principles and Practices of University Teaching

Teaches the core principles of pedagogy at the university level and provides students guidance and feedback on constructing a teaching session in collaboration with a faculty mentor. Using the instructional practices of their discipline, students discuss issues university faculty encounter in their quest toward teaching excellence. The expertise of the Graduate Teacher Program, the Preparing Future Faculty Network and the Faculty Teaching Excellence Program will be drawn upon for supplemental resources, seminars and workshops. May be repeated up to 3 total credit hours. Prereq., ARSC 4700. Restricted to McNair Program Students.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Special Curricula](#)

ARSC-5000 (3) Multimedia Applications in Foreign/Second Language Education

Same as ARSC 4000.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Graduate-Level Courses](#)

ARSC-5040 (1-3) Arts and Sciences Special Topics

Same as ARSC 4040.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Graduate-Level Courses](#)

ARSC-5050 (3) Graduate Seminar on Applied Behavior Science 1

The first part of a two-semester sequence designed to introduce graduate students in the social sciences to interdisciplinary theory, concepts, and methods as applied to important social problems. Prereq., completion of first year of graduate work in a social science department.

[College of Arts & Sciences](#) [Arts & Sciences Admin](#) [Graduate-Level Courses](#)

ARSC-5060 (3) Graduate Seminar on Applied Behavior Science 2

The second part of a two-semester sequence designed to introduce graduate students in the social sciences to interdisciplinary theory, concepts, and methods as applied to important social problems. Prereq., ARSC 5050.

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Courses

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ARTF

ARTF-5000 (3) Advanced Digital Postproduction

Class explores the advanced practices and aesthetics of computer-based moving-image art editing. Topics include how to edit and manage a postproduction cycle, how to use digital editing systems and capabilities such as compositing, digital audio, and optical effects treatments. Prereqs., FILM 1502,2000 or 2300, 2500, and 3400 or 3600, or instructor consent. Cannot be taken simultaneously with FILM 3400 or 3600. Same as FILM 4000.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5003 (3) Film and Fiction

Explores similarities and differences between literature and film as narrative arts. Studies novels, short stories, and plays and films made from them. Examines problems in point of view, manipulation of time, tone, structure, and setting. Same as FILM 4003. COML 5003 and ARTF 5003 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5004 (3) Topics in Film Theory

Provides topic-centered analyses of controversial areas in film theory. Students read extensive materials in the topic area, analyze and summarize arguments as presented in the literature, write "Position" papers, and make oral presentations in which they elaborate their own arguments about specific assigned topic, establishing critical dialogue with the primary materials. May be repeated up to 6 total credit hours. Prereq., FILM 3051 or instructor consent. Restricted to senior FILM, FMST, or HUMN majors. Same as FILM 4004. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5010 (1-3) Topics in Film Studies-Production

Prepares students for advanced Film Studies production courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as FILM 4010. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5013 (3) Film, Photography and Modernism

Provides interdisciplinary study of film, photography, and modernism, focusing on issues such as dystopia, alienation, sexuality, subjectivity, and self-referentiality. Photographs by Stieglitz, Strand, Weston, Evans, Cartier-Bresson, Kertesz, and Moholy-Nagy. Films by Dziga Vertov, Eisenstein, Resnais, Antonioni, Bergman, Bunuel, and Bertolucci. Prereq., FILM 1502. Recommended prereq., FILM 3051. Same as FILM 4013.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5021 (3) Directing/Acting for the Camera

Offers an intensive workshop that provides students with experience directing dramatic material, acting before a camera, and interpreting or adopting dramatic material for film. No experience in directing or acting required. Attendance, research, and papers required. Recommended prereq., FILM 1502. Same as FILM 4021. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5023 (3) Topics in International Cinema

Focuses on major international filmmakers who have had a decisive impact on world cinema. Students will learn how directors create their own innovative body of work with specific formal and thematic patterns, and will also learn to place such work within multiple frameworks that will cover film history, theory, aesthetics, philosophy, and social and cultural analysis. May be repeated up to 6 total credit hours provided topics are different. Prereq., FILM 1502. Recommended prereqs., FILM 3051 and 3061. Same as FILM 4023. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5024 (3) Advanced Research Seminar

Focuses on a specific topic, director, or genre chosen by the professor. Research skills and critical thinking are emphasized. With faculty guidance, students determine individual projects and present them to the class. Class participation is mandatory. Each student submits a thorough and original research paper for a final grade. May be repeated up to 6 total credit hours. Prereq., FILM 1502. Recommended prereqs., FILM 3051, 3061. Same as FILM 4024. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5030 (3) Visiting Filmmakers Seminar

Examines creative issues in contemporary cinema art. Graduate and advanced undergraduate students explore filmmaking ideas with guest artists within a seminar setting. Filmmakers, videographers and programmers of national and international reputation, with an emphasis on "Experimental" practice, interact with graduate and advanced undergraduate students, and discuss their work at seminar meetings, public lectures or events. May be repeated up to 6 total credit hours. Recommended prereqs., FILM 1502 and 4453 or instructor consent. Same as FILM 4030.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5043 (1-3) Topics in Film Studies-Critical Studies

Prepares students for advanced Film Studies critical studies courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as FILM 4043. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5105 (3) Advanced Screenwriting

Introduces professional screenwriting, in the form of a creative writing workshop. Admission by portfolio (see film department). Students write scenes and scripts for short films, feature treatments, etc., and are graded on a final portfolio. Prereq., approved writing sample. Recommended prereqs., FILM 3051 and 3061. Same as FILM 4105.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5200 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

ARTF-5453 (3) Elective Affinities: Avant-Garde Film and the Arts

Traces the history and aesthetics of avant-garde/ experimental films in light of similar ideas found in the other arts, particularly painting, poetry, photography and music. Topics covered include Dada and the early avant-garde; surrealism and psychodramas; Brakhage and abstract expressionism; feminist arts and film since the 1980s; the idea of the sublime in painting, music, and film; landscape in painting, photography, and film; post-modernism and the cinema; queer theory, gender/identity politics, and aesthetics of recent films; and specific multiple disciplinary artists such as Andy Warhol, Michael Snow, Helen Levitt, and Gunvor Nelson. Prereq., FILM 1502. Same as FILM 4453. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Graduate Film Courses

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5500 (3) Cinema Production 2

Advanced exploration of creative cinema production through short production and post-production projects. Course focuses on the tactics and strategies of independent cinema production exploring either documentary, experimental, or narrative genres. May be repeated up to 9 total credit hours. Prereq., FILM 3400. Same as FILM 4500. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5600 (3) Creative Digital Cinematography

Explores creative approaches to single camera digital cinematography through short projects, discussions, and screenings. Relates creative photography and poetic approaches to the digital camera cinema. May be repeated up to 9 total credit hours. Prereqs., FILM 2000, 3600, or ARTS 4246 or 5346 or instructor consent. Restricted to FILM majors. Same as FILM 4600.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5604 (3) Colloquium in Film Aesthetics

Seminar for the serious round table discussion and critique of film as an art form, emphasizing development of appropriate verbal and written language skills for description of film. May be repeated upto 6 total credit hours. Same as FILM 4604. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5610 (3) Image-makers Graduate Seminar

Explores advanced graduate studio work in a seminar setting. The course will focus on the development of ideas and activities which advance creative image making. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5717 (1-3) Graduate Studio Critique

May be repeated up to 6 total credit hours with any single faculty member. Prereq., graduate standing and/or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5846 (1-3) Graduate Independent Study-Video

Participate in graduate independent study. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-5857 (1-3) Graduate Independent Study

Participate in graduate independent study. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent.
Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Graduate Film Courses](#)

ARTF-6959 (1-6) Master's Thesis Film

Preparation, research, writing of critical studies Master's thesis in fulfillment of concurrent BAMA in Film. Prereq., ARTF 5004. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

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ARTS

ARTS-1002 (3) Beginning Drawing 1

In this studio course the formal visual elements are presented through a study of spatial relationships. The course is built around a series of related problems, each of which is designed to develop fluency in drawing, offer experience in handling media, foster self-confidence, and promote an understanding of the visual elements and their role in the development of pictorial space. Prereqs., ARTS 1010, 1020, and 1030.

[College of Arts & Sciences](#) [Art & Art History](#) [Painting/Drawing](#)

ARTS-1003 (3) Printmaking for Non-Majors

Emphasizes processes involved with both nonmultiple and multiple methods, including but not limited to metal plate etching (intaglio), lithography, collagraph, woodcut, linoleum cut, Xerox transfer, and monotype. Places equal emphases on developing drawing skills and understanding design principles.

[College of Arts & Sciences](#) [Art & Art History](#) [Printmaking](#)

ARTS-1010 (3) Introduction to Studio Art

Presents creative activity conceptually, and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Fine arts majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Foundations](#)

ARTS-1012 (3) Drawing for Non-Majors

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-1020 (3) Introduction to Studio Art 2

Presents creative activity conceptually and art history thematically, with an interdisciplinary, experimental, and multicultural focus. Art and art history majors explore visual literacy and culture through presentations and student-centered projects that emphasize individual development. Prereq., ARTS 1010. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Foundations

ARTS-1030 (3) Principles of Color

Introduces the relative effects of color as used by the artist. Emphasizes the practice of color relations including basic characteristics, mixtures, illusions, optical mixture, color intervals, and color quantity. May not be repeated.

College of Arts & Sciences Art & Art History Foundations

ARTS-1171 (3) Photography for Non-Majors

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Credit not granted for this course and ARTS 2171.

College of Arts & Sciences Art & Art History Photography

ARTS-1202 (3) Beginning Painting 1

The aim of this course is to develop the basic skills, techniques and processes of painting with an understanding of basic colour principles. This integration of paint application and colour principle will develop awareness that painting and colour are used, not only as mediums for representation, but also as mediums for expressive purposes. Demonstrations, lectures, group and individual critiques will be given throughout the course. Prereqs., ARTS 1010, 1020, and 1030.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-1212 (3) Painting for Non-Majors

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-1514 (3) Sculpture for Non-Majors

Offers an orientation involving three-dimensional form and application. Studies expressive problems based on non-objective form relationships in various sculptural materials. May not be repeated.

College of Arts & Sciences Art & Art History Sculpture

ARTS-1875 (3) Ceramics for Non-Majors

Encompasses broad and fundamental uses of clay. Basic instruction and demonstration of throwing, hand building, and primitive clay forming methods. Investigates utility, function, and ceramics in the broader context of contemporary art. Slide presentations explore historical and contemporary attitudes involving ceramics.

College of Arts & Sciences Art & Art History Ceramics

ARTS-2002 (3) Figure Drawing

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-2004 (3) Participatory Objects (Sculpture and Post-Studio Practice)

Looks at the tendency in contemporary sculpture to create interactive objects and experiences for the viewer. Students in this course are required to create hands-on projects, participate in group critiques, and develop presentations and research projects. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-2054 (3) Modules and Multiples (Sculpture and Post-Studio Practices)

Exposes students to the practice of creating large works through smaller multiples and modules. Students will learn to cast using plaster and other types of materials, molds and jigs will also be introduced as a way to streamline production of multiple objects. Prereq., ARTS

1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-2085 (3) Ceramics 2: Handbuilding

Introduces techniques of hand-built clay forms as they relate to function and nonfunction. Various clay techniques, glazing, and firing procedures are explored. Emphasizes ceramics in the broader context of contemporary art. May not be repeated. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Ceramics

ARTS-2095 (3) Ceramics 2: Wheelthrowing

Introduces techniques of wheel-thrown forms as they relate to function and nonfunction. Explores various glazing and firing methods. May not be repeated. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Ceramics

ARTS-2104 (3) Colossal Objects (Sculpture and Post-Studio Practice)

Focuses on the conception, design and production of art works that are larger than human scale. Each object will be the result of individual and team design collaboration. This course primarily focuses on sculpture constructed and engineered from metal although other materials are welcome. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-2126 (3) Digital Art 1

An introductory course in the use of the personal computer to create and process images in the visual arts. Prereq., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Media Arts

ARTS-2171 (3) Photography 1

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Credit not granted for this course and ARTS 1171. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Photography

ARTS-2184 (3) Nothing Flat: Project a Week (Sculpture & Post-Studio Practice)

Provides students the opportunity to work with a range of sculptural materials through a series of quick projects (e.g. installation, objects, writing). Students will learn to generate ideas quickly, engage issues and formats particular to sculpture, and produce a wide range of work over 15 weeks. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-2191 (3) Photography 2

Explores more sophisticated technical and conceptual skills to the creative process. Prereq., ARTS 2171. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Photography

ARTS-2202 (3) Figure Painting

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated. Prereqs., ARTS 1010, 1020, and either ARTH 1300 or 1400. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-2244 (3) Drawing for Sculpture (Sculpture and Post-Studio Practice)

Explores and examines many relationships between sculpture and drawing. Projects will explore 2-D drawing and mixed media projects through the lens of sculptural practice. Scale, materials, and styles will be researched along with topics such as the artists proposal, investigative processes, drawing and sculptural installations. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-2504 (3) Basic Sculpture: Materials and Techniques

Introduces the basic properties of metal, wood, and mold making. Students will explore and demonstrate an understanding of basic fabrication methods involved in each element. Students will investigate both traditional and non-traditional working methods and will consider how materials and techniques inform sculptural concepts. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Sculpture

ARTS-2524 (3) Visual Thinking (Sculpture and Post-Studio Practice)

Explores ideas concerning the structure and nature of visual thinking and their relationship to the creative thought process. Also investigates form in terms of the organizing principles of three-dimensional design and its application to contemporary sculpture. Includes lecture and studio projects. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only. Prereq., ARTS 1010 & 1020. May be repeated up to 6 total credit hours. Prerequisites: Requires pre-requisite courses of ARTS 1010 & 1020. Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

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ARTS

ARTS-3002 (3) Drawing Alternative Process/Materials

Continuation of Drawing 2. Offers creative possibilities in drawing and related media. Emphasizes experimentation and individual expression. Content varies by semester according to instructor; contact individual instructor for more information. May be repeated once. Prereq., ARTS 2002. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#)
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[Painting/Drawing](#)

ARTS-3017 (1-3) Special Topics in Studio Arts

Introduces timely subjects in studio arts courses that cannot be offered on a regular basis. Information concerning the topics in any given semester is available prior to pre-registration from the department of Art and Art History. May be repeated up to 7 total credit hours. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#)
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ARTS-3085 (3) Ceramics 3

Deals with further exploration of techniques approached in ARTH 2085 and 2095. Students are encouraged to develop personal concentration in relation to medium. May be repeated up to 6 total credit hours. Prereqs., ARTS 2085, 2095. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#)
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[Ceramics](#)

ARTS-3097 (1-3) Special Topics---Non-Studio

Introduces timely subjects in fine arts that cannot be offered on a regular basis. Information concerning the topics offered in any given semester is available prior to preregistration from the Department of Art and Art History. May be repeated up to 7 total credit hours. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Prerequisites: Restricted to Studio Arts (AASA) or Fine Arts-Studio (BASA and BFAS) or Fine Arts-Art History (BAAH) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Seminars/Special Topics

ARTS-3124 (3) Intervention, Exchange, and Duration (Sculpture & Post-Studio Practice)

Focuses on the production of works of art outside of the traditional studio, museum and gallery. Projects in this course will be designed to interrupt, intervene, co-opt, provide a service, exist for a defined amount of time, or engage a site, community or situation. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Recommended prereq., ARTS 2504. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-3191 (3) Photography 3

Continues the exploration of the possibility of individual photographic expression. Students are encouraged to discover and develop a personal position in relation to the medium. May be repeated up to 6 total credit hours. Prereq., Arts 2191. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Photography

ARTS-3196 (3) Photo-Imaging

Introduces techniques, software, and related concepts of digital photography as art. Emphasizes digital photography as a means to formal and expressive ends. Prereq., ARTS 1171.

College of Arts & Sciences Art & Art History Media Arts

ARTS-3202 (3) Painting Alternative Process/Materials

Continuation of Painting 2. Offers creative possibilities in painting and related media. Emphasizes experimentation and individual expression. Content varies by semester according to instructor; contact individual instructor for more information. May be repeated up to 6 total credit hours. Prereq., ARTS 2202. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-3224 (3) Picturing Sculpture

Explores the many ways photography and other forms of imagery have been utilized in the field of sculpture. In this course, students will start from the sculptural, but those objects and installations will function as an intermediary to creating final work that will rest in the image. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations.

Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-3236 (3) Electronic Arts Survey

Explores the development of video as an art form through tape screenings, readings, lectures, and discussions. Prerequisite for further studies in video production.

College of Arts & Sciences Art & Art History Media Arts

ARTS-3354 (3) Bend, Build, Burn: Sculpture in Wood

Focuses on the production of works of art in wood. Class projects explore building, bending, and burning with wood. This course primarily focuses on sculptural constructed objects although possibilities of installation, site-specific, and public art will also be explored.

Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-3384 (3) Fleeting and Found: Ephemeral Sculpture

Focuses on creating sculpture projects which are ephemeral and temporary. Themes of process, lifespan, migration, tension, entropy, and degradation will be explored. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-3403 (3) Intaglio and Relief 1

Introduces the study and experimentation of intaglio and relief processes in black and white, color, and possible photo imagery. May be repeated up to 6 total credit hours. Taught with ARTS 4403/5403. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Printmaking

ARTS-3413 (3) Lithography 1

Introduces the study of stone and metal plate lithography, emphasizing individual creative development in black and white and further development in color printing processes. May be repeated up to 6 total credit hours. Not available to freshmen. Taught with ARTS 4413/5413. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Printmaking

ARTS-3423 (3) Screen Printing 1

Introduces the study of silkscreen techniques, emphasizing creativity, individual development, and experimentation in contemporary silkscreen processes. May be repeated up to 6 total credit hours. Not available to freshmen.

College of Arts & Sciences Art & Art History Printmaking

ARTS-3504 (3) Sculpture 3: Experiments 1

Explores materials, methods, and techniques through a series of assignments emphasizing individual ideas and their relationship to contemporary aesthetics. Prereqs., ARTS 2504 and 2524. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Sculpture

ARTS-3514 (3) Sculpture 3: Experiments 2

Explores individual concepts and ideas and their relationship to contemporary issues and aesthetics. a series of assignments are worked out with the instructor based on individual interest. Prereq., ARTS 3504. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Sculpture

ARTS-3614 (3) Lost in Space: Installation Art

Students in this course will learn how to develop ideas in relation to installation art, exhibition spaces, and explore practical skills to help carry out their ideas. This course will include lectures, readings and discussion, writing assignments, studio projects, and visual presentations. Recommended prereqs., ARTS 2504 and 2524. Prereqs., ARTS 1010 and 1020.

College of Arts & Sciences Art & Art History Sculpture

ARTS-3702 (3) Special Focus in Painting and Drawing

Offers varied focus and special topics in painting, drawing, and related media to explore specialized directions and creative possibilities. Emphasizes experimentation. Content varies by semester; contact individual instructor for more information. May be repeated up to 6 total credit hours. Prereq., ARTS 2002 or 2202. Recommended prereq., ARTS 3002 or 3202.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-3841 (1-3) Undergraduate Independent Study---Photography

Reserved only for special projects in photography, not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 3191 or 4161. Requires a detailed proposal, instructor's signature, and departmental approval.

College of Arts & Sciences Art & Art History Photography

ARTS-3842 (1-3) Undergraduate Independent Study---Painting

Reserved for special projects in painting not offered in the curriculum. May be repeated up to 6 total credit hours. Prereqs., ARTS 3202 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-3845 (1-3) Undergraduate Independent Study---Ceramics

Reserved for special projects in ceramics not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 3085 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

College of Arts & Sciences Art & Art History Ceramics

ARTS-3847 (1-3) Independent Study

Reserved for special projects not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., detailed proposal, instructor sponsorship, and departmental approval.

College of Arts & Sciences Art & Art History Seminars/Special Topics

ARTS-3906 (1-3) Undergraduate Independent Study---Video

Reserved for special projects in video not offered in the curriculum. May be repeated up to 6 total credit hours. Prereq., ARTS 4246 and instructor consent. Requires a detailed proposal, instructor's sponsorship, and departmental approval.

College of Arts & Sciences Art & Art History Media Arts

ARTS-3937 (1-6) Internship

Gives upper-division students the opportunity to work in public or private organizations on assignments relating to their career goals, and allows them to explore the relationship between theory and practice in their major. May be repeated up to 6 total credit hours.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Seminars/Special Topics](#)

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ARTS

ARTS-4002 (3) Advanced Drawing/Portfolio

Continuation of Drawing 3. Advanced studio class in drawing for creative expression and individual portfolio development. Emphasis varies by semester; contact individual instructor for more information. May be repeated up to 12 total credit hours. Prereq., ARTS 3002. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Painting/Drawing](#)

ARTS-4017 (1-3) Special Topics in Studio Arts

Introduces timely subjects in studio art courses that cannot be offered on a regular basis. Information on topics in any given semester is available prior to pre-registration in departmental office. May be repeated up to 18 total credit hours. Prereq., ARTS 1010, 1020 and Arth 1300 or 1400. Restricted to juniors and seniors. Same as ARTS 5017. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Seminars/Special Topics](#)

ARTS-4024 (3) Public Art: from Statues to the Internet

Focuses on the two areas 1) lecture/discussion, both based on political, historical and the aesthetic evolution regarding examples of public art and 2) current practice, in reference to how to use such information to generate new more innovative and original ideas regarding public art and its application. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Prereqs., ARTS 1010 and 1020. Recommended prereqs., ARTS 2504, 2524, and 3504. Same as ARTS 5024.

[College of Arts & Sciences](#) [Art & Art History](#) [Sculpture](#)

ARTS-4085 (3) Ceramics 4

Includes lectures, research, and experimentation in clay (wheel and hand construction techniques). May be repeated up to 12 total credit hours. Prereq., ARTS 3085. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Ceramics

ARTS-4087 (3) Selected Topics in Contemporary Art

Selectively studies significant areas of visual art of the last decade including major critical opinions. May be repeated up to 6 total credit hours. Prereq., 20 hours of ARTS or ARTH courses. Same as ARTS 5087.

College of Arts & Sciences Art & Art History Seminars/Special Topics

ARTS-4095 (3) Special Topics in Ceramics

Designed for students majoring in ceramics. May be repeated up to 9 total credit hours. Taught with ARTS 5095. Prereq., ARTS 3085. Restricted to majors. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Ceramics

ARTS-4097 (1-3) Special Topics---Non-Studio

Introduces timely subjects in the visual arts that cannot be offered on a regular basis. Information concerning the topics offered in any given semester is available prior to preregistration from the fine arts department. May be repeated up to 6 total credit hours. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. Same as ARTS 5097. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Seminars/Special Topics

ARTS-4104 (3) Performance/Installation

Primarily focuses upon personal imagery as a live situation occurring in either an invented constructed reality or real environment. Work may be individual or group configuration, and may also take on the visual linguistic form of a solo performance or of a multimedia presentation. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400. May be repeated up to 6 total credit hours with instructor consent. Same as ARTS 5104. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Art & Art History Sculpture

ARTS-4107 (1-3) Special Topics

May be repeated up to 3 total credit hours.

College of Arts & Sciences Art & Art History Seminars/Special Topics

ARTS-4117 (3) BFA Seminar

For students intending to pursue graduate work and/or a professional career in art. Emphasizes the development of a critical overview of their work and interests and how they relate to the problems of professional activity. Restricted to Studio Arts (AASF) majors only.

Prerequisites: Restricted to Studio Arts (AASF) majors only.

College of Arts & Sciences Art & Art History Seminars/Special Topics

ARTS-4118 (3) Visiting Artist Program

Artists of national and international reputation, interacting with graduate and advanced undergraduate students, discuss their studio work at seminar meetings and at public lectures or events. Provides continuous input of significant developments and a comprehensive view of contemporary issues in the arts. May be repeated up to 6 total credit hours. Prereq., portfolio review for undergraduates and senior standing. Same as ARTS 5118. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Visiting Artist Program

ARTS-4126 (3) Digital Art 2

Offers studio experience using personal computer in the generation and processing of imagery in the visual arts. Prereq., ARTS 2126.

Same as ARTS 5126. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Media Arts

ARTS-4127 (3) Art from Nature

Provides an opportunity for advanced students to create nature based art. Studio work and/or appropriate on-site works will be generated through readings and individual and group experiences of nature. Prereq., one 4000 level studio course. Same as ARTS 5127.

College of Arts & Sciences Art & Art History Seminars/Special Topics

ARTS-4130 (3) Integrated Media

Encourages experimentation with media and integration of traditional areas of drawing, painting, sculpture, and photography. Covers two- and three-dimensional collage/assemblage, correspondence art, artist's books, site-specific, performance, audio, and video art. Same as ARTS 5130.

College of Arts & Sciences Art & Art History Integrated Arts

ARTS-4154 (3) Metalsmithing 1

Introduces students to the fundamental techniques used in metalsmithing, including cold and hot fabrication techniques, forming, and coloring. Through projects, discussions, readings, and demonstrations, students will learn how to create, analyze, understand and critique contemporary metalwork. Projects will focus on design and concept development, while enhancing students' technical and problem-solving skills. Prereqs., ARTS 1010, 1020, at least one ARTS 2000-level course, and at least one ARTS 3000-level course. Same as ARTS 5154.

College of Arts & Sciences Art & Art History Sculpture

ARTS-4161 (3) Photography 4

Explores advanced techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. May be repeated up to 12 total credit hours. Prereq., ARTS 3191. . Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Photography

ARTS-4171 (3) New Directions in Photography

Investigates the use of the photographic image in new, antique, or nonstandard ways including nonsilver, photosculpture, various color processes, photolanguage, photoinstallations, electronic media, performance, filmmaking, electrostatic art (copy machine), photobooks, photocollage, and audio/visual art. Course content changes each semester. May be repeated up to 9 total credit hours. Prereq., ARTS 3191 or equivalent. Same as ARTS 5171. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Photography

ARTS-4176 (3) New Directions in Digital Art

Investigates the use of digital art in various contexts including digital narrative, web publishing, Internet art, multimedia performance, animation, conceptual art, information art, sound art, language art, and network installations. May be repeated up to 9 total credit hours. Prereqs., ARTS 2126 and 4316/5316 or instructor consent. Same as ARTS 5176. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Media Arts

ARTS-4196 (3) Advanced Photo-Imaging

Offers an in-depth exploration of digital imaging in the context of the history, aesthetics, and tradition of photography as contemporary art. Emphasis is on digital manipulation, output, and individual growth and development. Prereq., ARTS 2191 or advanced standing in photography or media arts. Same as ARTS 5196.

College of Arts & Sciences Art & Art History Media Arts

ARTS-4202 (3) Advanced Painting/Portfolio

Continuation of Painting 3. Advanced studio class in painting for creative expression and individual portfolio development. Emphasis varies by semester; contact individual instructor for more information. May be repeated up to 12 total credit hours. Prereq., ARTS 3202. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Painting/Drawing

ARTS-4226 (3) Advanced Computer Imaging

Explores advanced techniques and concepts of digital image-making. Emphasizes the creative application of computer imaging in the production of visual art through individual projects. Prereq., ARTS 4126. Restricted to junior or senior ARTS or ARTH majors. Same as ARTS 5226.

College of Arts & Sciences Art & Art History Media Arts

ARTS-4236 (3) Electronic Arts Survey 2

Continuation of electronic arts survey. Explores the development of video as an art form. Prerequisite for further studies in video production. Same as ARTS 5236.

College of Arts & Sciences Art & Art History Media Arts

ARTS-4246 (3) Beginning Video Production

Presents a studio course on basic single camera video production strategies and concepts. Through class screenings, projects, demonstrations, discussions, and readings, students gain an introductory familiarity with camera, lighting, sound, editing and the organization and planning involved in a video project. Explores a basic theoretical understanding of video as an art form and its relationship to television, film, art, history, culture. Prereqs., ARTS 1010, 1020 and ARTH 1300 or 1400 or instructor consent. Same as ARTS 5246 and FILM 4240. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Media Arts

ARTS-4316 (3) History and Theory of Digital Art

Explores the history and theory of digital art. Discussion topics include the emergence of Internet art, hypertext, new media theory, online exhibitions, web publishing, virtual reality, and the networked interface. Includes collaborative and individual projects. Prereq., ARTS 2126 or instructor consent. Same as ARTS 5316. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Media Arts

ARTS-4346 (3) Intermediate Video Production

Continuation of beginning video production. Extends the knowledge of single camera video production strategies and concepts. Expands the concept of montage (editing) and strategies to develop a video project through class screenings, projects, discussions, and readings. Furthers theoretical understanding of video as an art form. Prereq., ARTS 4246 or instructor consent. Same as ARTS 5346 and FILM 4340.

[College of Arts & Sciences](#) [Art & Art History](#) [Media Arts](#)

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ARTS

ARTS-4403 (3) Intaglio and Relief 2

Continues the study and experimentation of intaglio and relief processes in black and white, color, digital imagery, and nontoxic processes as much as possible. May be repeated up to 12 total credit hours. Prereq., ARTS 3403. Taught with ARTS 3403/5403. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Printmaking](#)

ARTS-4413 (3) Lithography 2

Continues the study of stone and metal plate lithography, emphasizing individual creative development in black and white, and further development in color printing processes. In addition, digital imaging and nontoxic processes are emphasized as much as possible. May be repeated up to 12 total credit hours. Prereq., ARTS 3413. Taught with ARTS 3413/5413. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

[College of Arts & Sciences](#) [Art & Art History](#) [Printmaking](#)

ARTS-4423 (3) Screen Printing 2

Introduces advanced screen printing technology, emphasizing individual creativity and the ability to resolve problems of two-dimensional form. May be repeated up to 12 total credit hours. Prereq., ARTS 3423.

[College of Arts & Sciences](#) [Art & Art History](#) [Printmaking](#)

ARTS-4433 (3) Alternative Printmaking (Non-Toxic)

Introduces computer-generated imaging and developing ideas as related to traditional forms of printmaking. Emphasizes original development of ideas and skills involved in learning advanced printing processes in lithography and intaglio media. May be repeated up to 12 total credit hours. Same as ARTS 5433. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Printmaking

ARTS-4444 (6) Art and Rural Environments Field School

Puts students in touch with various rural landscapes in Colorado, including the High Plains region near the town of Last Chance. This course takes place off campus each summer during maymester. This course focuses on site-based approaches to art creation and is designed as an experiential course, meaning that students learn through the experience of place, and then by the process of making. After introductions to each site, students will be responsible for a site interpretation piece utilizing various mediums including photography, drawing, land art, and collaboration. Prereq., ARTS 1010 and 1020. Recommended prereq., ARTS 2504. Same as ARTS 5444.

College of Arts & Sciences Art & Art History Sculpture

ARTS-4446 (3) Advanced Video Production

Continuation of intermediate video production. Explores advanced technical skills to control the quality of the video image in production, postproduction, and distribution. Emphasizes self-motivated independent projects, conceptual realization of advanced student work and basic working knowledge of distribution and life as a media artist. Promotes further theoretical understanding of video as an art form. May be repeated up to 9 total credit hours. Prereq., ARTS 4346 or instructor consent. Same as ARTS 5446 & FILM 4440.

College of Arts & Sciences Art & Art History Media Arts

ARTS-4453 (3) Monotype Printing

Introduces monotype printing, with the uniqueness and diversity of its methods of producing art. The process uses some of the best qualities of painting, print making, and drawing. Emphasizes creative individual development, along with processes inherent to this media. May be repeated up to 6 credit hours. Same as ARTS 5453.

College of Arts & Sciences Art & Art History Printmaking

ARTS-4504 (3) Advanced Sculpture Studio

Students in this course will be required to complete 3 projects, participate in group critiques of projects, produce a slide presentation on a contemporary artist whose work/practice fits within the theme of the course, and prepare a final portfolio. Studio work and demonstrations will be augmented by readings and discussions on contemporary art. May be repeated up to 6 total credit hours. Prereqs., ARTS 3504 and 3514. Prerequisites: Restricted to Studio Arts (AASA or AASF) or Art History (AAAH) majors only.

College of Arts & Sciences Art & Art History Sculpture

ARTS-4717 (1-3) Studio Critique

Consists of consultations with faculty on individual studio problems and projects. May be repeated up to 6 total credit hours. Prereqs., junior standing and instructor consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5017 (1-3) Special Topics in Studio Arts

May be repeated up to 6 total credit hours. Same as ARTS 4017. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5024 (3) Public Art: from Statues to the Internet

Focuses on the two areas 1) lecture/discussion, both based on political, historical and the aesthetic evolution regarding examples of public art and 2) current practice, in reference to how to use such information to generate new more innovative and original ideas regarding public art and its application. This course will include lectures, readings and discussions, writing assignments, studio projects, and visual presentations. Same as ARTS 4024. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5075 (3) Graduate Ceramics

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-5087 (3) Selected Topics in Contemporary Art

Same as ARTS 4087. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5095 (3) Graduate Special Topics in Ceramics

Taught with ARTS 4095. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Ceramics

ARTS-5097 (1-3) Special Topics---Non-Studio

May be repeated up to 6 total credit hours. Same as ARTS 4097. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5104 (3) Graduate Performance/Installation

May be repeated up to 6 total credit hours with instructor consent. Same as ARTS 4104. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5107 (1-3) Special Topics

May be repeated up to 7 total credit hours.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5117 (3) Graduate Art Seminar

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5118 (3) Graduate Visiting Artist Program

Same as ARTS 4118. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Visiting Artist Program

ARTS-5126 (3) Graduate Digital Art 2

Same as ARTS 4126. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5127 (3) Art from Nature

Same as ARTS 4127.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5130 (3) Integrated Media

Same as ARTS 4130.

[College of Arts & Sciences](#) [Art & Art History](#) [Integrated Arts](#)

ARTS-5140 (3) Integrated Arts Studio

Explores the creative process through a series of conceptually-based studio exercises. Students are encouraged to work across traditional media boundaries as they address themes such as identity, place, spirituality, politics, and consumerism. Includes individual and collaborative studio projects, as well as reading and writing about the course themes. May be repeated up to 9 total credit hours.

[College of Arts & Sciences](#) [Art & Art History](#) [Integrated Arts](#)

ARTS-5150 (3) Graduate Integrated Arts

Investigates the conjunction of interdisciplinary concepts in the creation of art. Looks beyond traditional media to new sources for art-making. A curious intellect, combined with exceptional research skills, will be the basis for original writing and rigorous discussion.

[College of Arts & Sciences](#) [Art & Art History](#) [Integrated Arts](#)

ARTS-5154 (3) Metalsmithing 1

Introduces students to the fundamental techniques used in metalsmithing, including cold and hot fabrication techniques, forming, and coloring. Through projects, discussions, readings, and demonstrations, students will learn how to create, analyze, understand and critique contemporary metalwork. Projects will focus on design and concept development, while enhancing students' technical and problem-solving skills. Same as ARTS 4154. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Sculpture](#)

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ARTS

ARTS-5161 (3) Graduate Photography

May be repeated up to 18 total credit hours.

[College of Arts & Sciences](#) [Art & Art History](#) [Photography](#)

ARTS-5171 (3) New Directions in Photography

May be repeated up 9 total credit hours. Same as ARTS 4171. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Photography](#)

ARTS-5176 (3) Graduate New Directions in Digital Art

May be repeated up to 9 total credit hours. Same as ARTS 4176. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Art & Art History](#) [Media Arts](#)

ARTS-5191 (3) Digital Photography in Mongolia

Same as ARTS 4191.

[College of Arts & Sciences](#) [Art & Art History](#) [Photography](#)

ARTS-5196 (3) Graduate Advanced Photo-Imaging

Same as ARTS 4196.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5202 (3) Graduate Painting

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Painting/Drawing

ARTS-5226 (3) Graduate Advanced Computer Imaging

May be repeated up to 6 total credit hours. Prereq., ARTS 5126. Same as ARTS 4226.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5236 (3) Graduate Electronic Arts Survey 2

Same as ARTS 4236.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5246 (3) Graduate Beginning Video Production

Same as ARTS 4246. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5316 (3) Graduate History and Theory of Digital Arts

Same as ARTS 4316. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Media Arts

ARTS-5346 (3) Graduate Intermediate Video Production

Prereq., ARTS 4246/5246. Same as ARTS 4346. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Art & Art History Media Arts

ARTS-5403 (3) Graduate Intaglio and Relief

May be repeated up to 18 total credit hours. Taught with ARTS 3403/4403. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Art & Art History Printmaking

ARTS-5413 (3) Graduate Lithography

May be repeated up to 18 total credit hours. Taught with ARTS 3413/4413. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Art & Art History Printmaking

ARTS-5423 (3) Graduate Screen Printing

May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Art & Art History Printmaking

ARTS-5433 (3) Graduate Alternative Printmaking (Non-Toxic)

May be repeated up to 12 total credit hours. Same as ARTS 4433. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Art & Art History Printmaking

ARTS-5444 (6) Art and Rural Environments Field School

Puts students in touch with various rural landscapes in Colorado, including the High Plains region near the town of Last Chance. This course takes place off campus each summer during maymester. This course focuses on site-based approaches to art creation and is designed as an experiential course, meaning that students learn through the experience of place, and then by the process of making. After introductions to each site, students will be responsible for a site interpretation piece utilizing various mediums including photography, drawing, land art, and collaboration. Same as ARTS 4444. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Art & Art History Sculpture

ARTS-5446 (3) Graduate Advanced Video Production

Same as ARTS 4446. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Art & Art History Media Arts

ARTS-5453 (3) Graduate Monotype Printing

Same as ARTS 4453. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Printmaking

ARTS-5504 (3) Graduate Sculpture

May be repeated up to 18 credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Sculpture

ARTS-5540 (3) Generative Art

Same as ARTS 4540.

College of Arts & Sciences | Art & Art History | Integrated Arts

ARTS-5717 (1-3) Graduate Studio Critique

May be repeated up to 6 total credit hours with any single faculty member. Prereq., graduate standing and/or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5857 (1-3) Graduate Independent Study

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Art & Art History | Seminars/Special Topics

ARTS-5901 (1-3) Graduate Independent Study---Photography

May be repeated up to 6 total credit hours.

College of Arts & Sciences | Art & Art History | Photography

ARTS-6957 (1-6) Master of Fine Arts Creative Thesis

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ASEN

ASEN-1000 (1) Introduction to Aerospace Engineering Sciences

Introduces aerospace history, curriculum, ethics, and the many areas of emphasis within aerospace engineering. Academic and industry speakers are invited to address various aerospace topics. Prerequisites: Restricted to students with 0-26 credits (Freshmen) Aerospace Engineering (ASEN) or Engineering Open Option majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

ASEN-1400 (3) Gateway to Space

Introduces the basics of atmosphere and space sciences, space exploration, spacecraft design, rocketry, and orbits. Students design, build, and launch a miniature satellite on a high altitude balloon. Explores the current research in space through lectures from industry. Formerly ASEN 2500. Same as ASTR 2500. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

ASEN-2001 (4) Aerospace 1: Introduction to Statics, Structures, and Materials

Introduces models and analytical/numerical methods for statics and structural analysis. Topics include force/moment equilibrium, truss analysis, beam theory, stress/strain, failure criteria, and structural design. Matlab proficiency required. Prereqs., APPM 1360, GEEN 1300 or CSCI 1300 or ECEN 1030 and PHYS 1110 (min. grade C). Coreq., ASEN 2002, 2012 or APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Structures, Mat, & Struc Dynam](#)

ASEN-2002 (4) Aerospace 2: Introduction to Thermodynamics and Aerodynamics

Introduces the fundamental principals and concepts of thermodynamics and fluid dynamic systems. Emphasizes the synthesis of basic science (physics), mathematics, and experimental methods that form the basis for quantitative and qualitative analyses of general aerospace technology systems. Proficiency in Matlab required. Prereqs., APPM 1360, GEEN 1300, CSCI 1300, or ECEN 1030 and PHYS 1110 (min. grade C). Coreqs., ASEN 2001, 2012 and APPM 2350. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

ASEN-2003 (5) Aerospace 3: Introduction to Dynamics and Systems

Introduces the principles of particle and planar rigid body dynamics, systems, and controls. Topics include kinematics, kinetics, momentum and energy methods, system modeling, and simple feedback control. Class includes experimental and design laboratory exercises for aerospace applications of dynamic principles. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, ASEN 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2004. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Systems and Control

ASEN-2004 (5) Aerospace 4: Aerospace Vehicle Design and Performance

Introduction to design and analysis of aircraft and spacecraft. Aircraft topics include cruise performance, wing design, propulsion, stability, control, and structures. Spacecraft topics includerocket staging, orbit selection, launch systems, and spacecraft subsystems. Includes laboratory experiments and team design exercises. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2001, 2002, 2012 and APPM 2350 (all min grade C). Requires co-requisite courses of APPM 2360 and ASEN 2003. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

ASEN-2012 (2) Experimental and Computational Methods in Aerospace Engineering Sciences

Introduces statistical, experimental, and computational methods used in aerospace engineering sciences. Usage of MatLab is extensive. Coreq., ASEN 2001 and 2002. Prereq., GEEN 1300 or CSCI 1300 or ECEN 1030 (min. grade C). Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

ASEN-2519 (1-6) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the lower-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Restricted to Engineering students.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-2849 (1-3) Independent Study

Study of special projects agreed upon by student and instructor. May be repeated up to 9 total credit hours. Prereq., instructor consent.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-3036 (3) Introduction to Human Spaceflight

Introduces students to the challenges of human space flight. Historical and current space programs and spacecraft are discussed with emphasis on those systems specific to sustaining human crews. Other topics include space environment with respect to sustaining human life and health, physiological and psychological concerns in a space habitat, astronaut selection and training, anomalies, mission operations motivation, costs rationale for human space exploration, and future program directions. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

ASEN-3046 (3) Introduction to Humans in Aviation

Investigates the history of manned aviation accomplished through a review of the history of flight, the physiological and psychological limitations facing aviators, and investigates the human related causal factors in aviation accidents. The course also looks at the social and economic impacts of aviation in modern society. Not accepted as a Professional Area Elective for ASEN majors. Approved for upper-division Humanities and Social Science elective for engineering students.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

ASEN-3111 (4) Aerodynamics

Develops the fundamental concepts of aerodynamics and provides a working knowledge for their application to the design of aircraft and launch vehicles operating at various speeds and altitudes, as well as the atmospheric forces on satellites. Prereqs., APPM 2350, ASEN 2002 and 2004 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Aerodynamics & Fluid Mechanics

ASEN-3112 (4) Structures

Teaches Mechanics of Materials methods of stress and deformation analysis applicable to the design and verification of aircraft and space structures. It offers an introduction to matrix and finite element methods for truss structures, and to mechanical vibrations. Prereq., ASEN 2001, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered fall only. Prerequisites: Restricted to

Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-3113 (4) Thermodynamics and Heat Transfer

Focuses on the applications of the first and second laws of thermodynamics to control volumes and teaches the fundamental concepts of different modes of energy and heat transfer. Learn to use these concepts in gas dynamics, high-speed vehicle spacecraft design, environmental systems, and energy analysis. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN 2002 and APPM 2350 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Thermodynamics and Propulsion

ASEN-3116 (3) Introduction to Biomedical Engineering

Addresses human responses to environment and physical stimuli. Makes use of engineering and physical principles in the study of human dynamics, arriving at reasonable solutions to 15 major areas of biomedical consent. Prereq., instructor consent.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

ASEN-3128 (4) Aircraft Dynamics

Develops the fundamental concepts of aircraft dynamics. Covers flight mechanics, performance, dynamics and control of aircraft, and how they impact aircraft design. Prereqs., ASEN 2002, 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2002, 2003, 2004 & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

ASEN-3200 (4) Orbital Mechanics/Attitude Dynamics and Control

Presents the fundamentals of orbital mechanics, 3D rigid body dynamics, and satellite attitude dynamics and controls. Prereqs., ASEN 2003, 2004, and APPM 2360 (min. grade C). Restricted to ASEN majors. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, ASEN 2004, & APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-3300 (4) Aerospace Electronics and Communications

Provides the fundamentals of electronics and communications widely used in aerospace engineering. Includes analog instrumentation electronics, data acquisition, digital electronics, and radio communication. Offered spring only. Prerequisites: Requires pre-requisite courses of ASEN 2003, PHYS 1120 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Systems and Control

ASEN-3519 (1-4) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online SchedulePlanner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-3930 (6) Aerospace Engineering Cooperative Education

Students will participate in a previously arranged, department-sponsored cooperative education program with a government agency or industry. Recommended GPA above 3.0. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Aerospace Engineering majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-4010 (3) Introduction to Space Dynamics

Includes central force fields, satellite orbits, rocket dynamics, orbital transfer, interplanetary mission analysis, and perturbation due to atmospheric drag and Earth oblateness. Prereq., ASEN 3200 or equivalent, or instructor consent required. Prerequisites: Requires pre-requisite course of ASEN 3200. Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-4012 (3) Aerospace Materials

Studies aerospace grade aluminum, magnesium, nickel, and titanium alloys. Covers heat treatment, defect structures, failure mechanisms, corrosion and its prevention, the effect of space radiation on materials, and high and low temperature effects. Introduces composite materials with a lab design and experiment. Emphasizes the selection of materials in design with procedures for choosing materials rationally. Case studies include aerogels, carbides, composites, powder metallurgy, nanomaterials, and advanced materials manufacturing technologies. Prerequisites: Requires pre-requisite course of ASEN 2001 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-4013 (3) Foundations of Propulsion

Describes aerothermodynamics and design of both rocket and air-breathing engines. Includes ramjets, turbojets, turbofans, and turboprop engines, as well as liquid, solid, and hybrid rockets. Prerequisites: Requires pre-requisite courses of ASEN 3113 and APPM 2360 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

College of Engineering & Applied Science Aerospace Engineering Thermodynamics and Propulsion

ASEN-4018 (4) Senior Projects 1: Design Synthesis

Focuses on the synthesis of technical knowledge, project management, design process, leadership, and communications within a team environment. Students progress through the design process beginning with requirements development, then preliminary design and culminating with critical design. Offered fall only. Prerequisites: Requires pre-requisite courses of ASEN, 3111, 3112, 3113, 3128, 3200, and 3300 (all min grade C). Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

ASEN-4028 (4) Senior Projects 2: Design Practicum

Focuses on the fabrication, integration, verification and validation of designs produced in ASEN 4018. Students work within the same teams from ASEN 4018. Instructor consent required. Offered spring only. Prerequisites: Requires pre-requisite course of ASEN 4018 (min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

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ASEN

ASEN-4047 (3) Probability and Statistics for Aerospace Engineering Sciences

Considers probability concepts and theory for better design and control of aerospace engineering systems. Includes descriptive and inferential statistical methods for experimental analysis. Also covers discrete and continuous random variable distributions, estimators, confidence intervals, regression, analysis of variance, hypothesis testing, nonparametric statistics, random processes, and quality control, including software models of same. Prereq., junior or graduate standing or instructor consent. Same as ASEN 5047.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Computational & Analytic Meth](#)

ASEN-4090 (3) Global Positioning Systems Applications

Focuses on GPS technology, software development, and applications. Lectures will cover the principal concepts used in GPS, and weekly laboratories will apply that knowledge. The course will culminate instudent design projects using GPS. Prereqs., APPM 2360 and GEEN 1300 or equivalent. Recommended junior/senior standing in engineering.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Global Positioning Systems](#)

ASEN-4114 (3) Automatic Control Systems

Methods of analysis and design of feedback control for dynamic systems. Covers nyquist, bode, and linear quadratic methods based on frequency domain and state space models. Laboratory experiments provide exposure to computation for simulation and real time control, and typical control system sensors and actuators. Same as ASEN 5114. Prerequisites: Requires pre-requisite courses of ASEN 3128 and ASEN 3200 (all min grade C). Restricted to Aerospace Engineering (ASEN) majors only.

ASEN-4123 (3) Vibration Analysis

Highlights free and forced vibration of discrete and continuous systems. Examines Lagrange's equation, Fourier series, Laplace transforms, and matrix and computational methods. Applies knowledge to practical engineering problems. Prereq., ASEN 3112 or MCEN 3030. MCEN 4123 and ASEN 4123 are the same course.

ASEN-4128 (3) Human Factors in Engineering and Design

Introduces the field of human factors engineering and investigates human psychological, physiological and performance limitations in complex systems and why it is vital for engineers to understand human operational limitations when designing complex systems. Course includes studies of real accidents caused by human error, good and bad designs, latent conditions and accident-producing designs. Goal is an understanding of how to conduct engineering design with consideration of human factors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

ASEN-4138 (3) Aircraft Design

Two lectures and one lab per week. Examines principles of aircraft configuration and design to meet given performance specifications, taking into account aerodynamic, stability and control, and flying quality considerations, as well as airworthiness regulations. Includes preliminary design of the major elements of an aircraft. Prereq., ASEN 3128. Restricted to ASEN majors. Prerequisites: Requires pre-requisite course of ASEN 3128. Restricted to Aerospace Engineering (ASEN) majors only.

ASEN-4215 (3) Descriptive Physical Oceanography

Introduces descriptive and dynamical physical oceanography, focusing on the nature and dynamics of ocean currents and their role in the distribution of heat and other aspects of ocean physics related to the Earth's climate. Dynamical material limited to mathematical descriptions of oceanic physical systems. Restricted to seniors and graduate students. Same as ASEN 5215 and ATOC 4215. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

ASEN-4216 (3) Neural Signals and Functional Brain Imaging

Explores bioelectric and metabolic signals generated by the nervous system from two stand points: 1) their biophysical genesis and role in neural integration and 2) neurotechnologies such as electroencephalography, magnetoencephalography, deep brain stimulation, and functional magnetic resonance imaging. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ASEN 5216 and ECEN 4811. Prerequisites: Requires pre-requisite course of ASEN 3300 or ECEN 2260 or ECEN 3030.

ASEN-4218 (3) Large Space Structures Design

Develops the necessary structural analysis skills for conducting conceptual and preliminary designs of large space structures with a practical emphasis on structures considered by NASA over the past 20 years. Applies analysis skills to a broad range of space missions requiring large space structures, emphasizing low cost and practical design. Prereq., senior standing in ASEN or MCEN, or instructor consent. Same as ASEN 5218.

ASEN-4222 (3) Materials Science for Composite Manufacturing

Studies common matrix materials and the modifications and improvements of properties which can be achieved by adding second phase reinforcements. Properties will be significantly affected by the design approach and by requirements, and by the procedure of adding reinforcements. Investigates polymer, ceramic and metallic materials. Explores manufacturing, fabrication and processing techniques. Evaluates future developments. Prereq., ASEN 3112 or equivalent, or instructor consent. Coreq., ASEN 4012 or instructor consent. Same as ASEN 5222. Prerequisites: Requires pre-requisite course of ASEN 3112 and pre-requisite or co-requisite course of ASEN 4012.

ASEN-4238 (3) Computer-Aided Control Systems Design

Covers Matlab and Simulink software, and multivariable control system synthesis and analysis techniques for typical aerospace control problems. Students formulate control problems and synthesize control functions using lineage quadratic techniques. Includes numerical integration of differential equations and nonlinear simulation of orbit and attitude dynamics. Prereq., APPM 2360.

ASEN-4248 (3) Computer-Aided Control System Design 2

Studies theory and engineering applications of Kalman filter techniques. Covers discrete and continuous filters, the extended Kalman filter, and their application to guidance, navigation, and control, including satellite orbit and attitude problems, inertial and control navigation, and the Global Positioning System. Prerequisites: Requires pre-requisite course of ASEN 4238.

ASEN-4255 (3) Environmental Aerodynamics

a review of the properties and causes of hazards posed by the environment, ranging from atmospheric wind shear to tornadic flows. Involves a multidisciplinary approach combining analytical, numerical, scale modeling studies with extensive field measurements, wind energy, and biophysical aerodynamics. Prereq., senior standing in ASEN. Same as ASEN 5255.

College of Engineering & Applied Science Aerospace Engineering Atmospheric, Oceanic & Space S

ASEN-4338 (3) Computer Analysis of Structures

Covers basic structural design concepts and finite element modeling techniques. Emphasizes use of finite element static and dynamic analysis to validate and refine an initial design. Introduces basic design optimization and tailoring. Proficiency in Matlab required. Prereq., ASEN 3112. Prerequisites: Requires pre-requisite course of ASEN 3112.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-4426 (3) Neural Systems and Physiological Control

A biophysical exploration of human physiology from the standpoints of control systems and neural information processing. Topics include: neural control of movement and cardiovascular performance, tissue growth and repair, carcinogenesis, and physiological responses to microgravity. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ASEN 4426 and ECEN 4821/5821. Prerequisites: Requires pre-requisite course of ASEN 3300 or ECEN 2260 or ECEN 3030.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

ASEN-4436 (3) Brains, Minds, Computers

An introductory, integrative survey of brain science, cognitive science, artificial intelligence, and their interrelations. Considers central concepts and principles from each of these areas and the similarities and difference of brain, minds, computers, robots, etc. Same as ASEN 5436 and ECEN 4831/5831. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

ASEN-4519 (1-3) Special Topics

Studies specialized aspects of the aerospace engineering sciences or innovative treatment of required subject matter at the upper-division level. Course content is indicated in the online Schedule Planner. Prereq., varies. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-4849 (1-6) Independent Study

Special projects agreed upon by student and instructor. Instructor consent required.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-4859 (1-6) Undergraduate Research

Assigns a research problem on an individual basis. Instructor consent required.

College of Engineering & Applied Science Aerospace Engineering Specialized Courses

ASEN-5007 (3) Introduction to Finite Elements

Introduces finite element methods used for solving linear problems in structural and continuum mechanics. Covers modeling, mathematical formulation, and computer implementation. Prereq., matrix algebra. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-5010 (3) Spacecraft Attitude Dynamics and Control

Includes rigid body kinematics and spacecraft attitude descriptions, torque-free attitude dynamics, static attitude determination, motion and stability due to gravity gradient torque and spinning craft, passive and active methods of attitude control, nonlinear regulator and attitude tracking feedback control laws. Prereq., ASEN 3200 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Astrodynamics & Orbital Mech

ASEN-5012 (3) Mechanics of Aerospace Structures

Applies fundamental concepts of continuum mechanics, theory of elasticity, and energy methods to the analysis of structures. Prereqs., APPM 2360 and ASEN 2001, 2003, and 3112, or equivalent. Similar to MCEN 5023. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-5014 (3) Linear Control Systems

Introduces the theory of linear systems, including vector spaces, linear equations, structure of linear operators, state space descriptions of dynamic systems, and state feedback control methods. Prereq., ASEN 3200. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Systems and Control

ASEN-5016 (3) Space Life Sciences

Familiarizes students with factors affecting living organisms in the reduced-gravity environment of space flight. Covers basic life support requirements, human physiological adaptations, and cellular-level gravity dependent processes with emphasis on technical writing and research proposal preparation. Prereq., graduate standing in engineering or senior with 3.25 GPA. Prerequisites: Restricted to College of

Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Bioastronautics & Microgravity](#)

ASEN-5018 (3) Graduate Projects I

Exposes MS and PhD students to project management and systems engineering disciplines while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this first semester of the two-semester course sequence: requirements, definition, design and design review, build, test, and verification. Recommended prereqs., ASEN 4138, or 5148, or 5158.

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ASEN

ASEN-5022 (3) Dynamics of Aerospace Structures

Applies concepts covered in undergraduate dynamics, structures, and mathematics to the dynamics of aerospace structural components, including methods of dynamic analysis, vibrational characteristics, vibration measurements, and dynamic stability. Prereqs., ASEN 5012, 5227, or equivalent. Recommended prereq., MATH 3130. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Structures, Mat, & Struc Dynam](#)

ASEN-5034 (3) Stochastic Methods for Systems Engineering

Same as ASEN 4034. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

ASEN-5047 (3) Probability and Statistics for Aerospace Engineering Sciences

Same as ASEN 4047. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Computational & Analytic Meth](#)

ASEN-5050 (3) Space Flight Dynamics

Includes celestial mechanics, space navigation, and orbit determination; trajectory design and mission analysis trajectory requirements; and orbital transfer and rendezvous. Prereq., ASEN 3200 or instructor consent. Prerequisites: Restricted to College of Engineering

graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Astrodynamics & Orbital Mech](#)

ASEN-5051 (3) Fluid Mechanics

Highlights physical properties of gases and liquids; kinematics of flow fields; and equations describing viscous, heat-conducting Newtonian fluids. Emphasizes exact solutions and rational approximations for low and high speed dissipative flows, surface and internal waves, acoustics, stability, and potential flows. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerodynamics & Fluid Mechanics](#)

ASEN-5053 (3) Rocket Propulsion

An in depth presentation of the theory, analysis, and design of rocket propulsion systems. Liquid and solid propellant systems are emphasized with an introduction to advanced propulsion concepts. Nozzle and fluid flow relationships are reviewed for background. Prereq., senior standing in ASEN or MCEN, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Thermodynamics and Propulsion](#)

ASEN-5063 (3) Gas Turbine Propulsion

Designed to teach the theory, analysis and design of modern gas turbine engines used for aircraft propulsion. Will deal with cycle and performance analyses, and analysis and design of compressors, turbines, intakes, nozzles and combustors as well as component matching. Prereq., ASEN 4013 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Thermodynamics and Propulsion](#)

ASEN-5070 (3) Introduction to Statistical Orbit Determination 1

Develops the theory of batch and sequential (Kalman) filtering, including a review of necessary concepts of probability and statistics. Course work includes a term project that allows students to apply classroom theory to an actual satellite orbit determination problem. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Astrodynamics & Orbital Mech](#)

ASEN-5090 (3) Introduction to Global Navigation Satellite Systems

Global Navigation Satellite Systems (GNSS) are important tools for navigation, science, and engineering. Introduces GNSS hardware, signal structure, algorithms, error sources, and modeling techniques. Programming experience is required. Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students. Prerequisites: Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students.

ASEN-5111 (3) Introduction to Aeroelasticity

Introduces static and dynamic aeroelasticity of airfoils and wings. Covers the classical aeroelasticity theory and introduces computational methods for aeroelastic problems. Prereqs., ASEN 3111, MATH 3130, and MATH 4430, or equivalent, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

ASEN-5114 (3) Automatic Control Systems

Methods of analysis and design of feedback control for dynamic systems. Covers nyquist, bode, and linear quadratic methods based on frequency domain and state space models. Laboratory experiments provide exposure to computation for simulation and real time control, and typical control system sensors and actuators. Same as ASEN 4114. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

ASEN-5116 (3) Spacecraft Life Support Systems

Provides a working knowledge of the systems needed to sustain human life in a spacecraft environment. Emphasis is on understanding functional requirements of a life support system; operational details of subsystem technologies; new concepts currently being considered in NASA's advanced programs; and conducting a technical trade study. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

ASEN-5122 (3) Control of Aerospace Structures 1

Introduces the basic problems in dynamic modeling and active control of large spacecraft and satellites. Includes system descriptions, model reduction, controller design, and closed-loop stability analysis. Prereq., ASEN 3200, graduate standing, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

ASEN-5148 (3) Spacecraft Design

Integrates the design elements and fundamental analyses necessary to complete the conceptual (Phase A) design of an unmanned spacecraft. Lecture and discussion explore mission design, propulsion, power, structure, thermal, attitude control, communication, command, and data handling and attitude control systems. The role of project management and systems engineering are examined. Resource estimating and lessons learned in satellite programs are reviewed. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

ASEN-5151 (3) High Speed Aerodynamics

Provides aerodynamic theory applicable to the high speed flight of subsonic, transonic, and supersonic aircraft, and hypersonic vehicles. Topics include linear theory of subsonic and supersonic speeds, the nonlinear theories of transonic and hypersonic speeds, and compressible boundary layers. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerodynamics & Fluid Mechanics](#)

ASEN-5158 (3) Space Habitat Design

Utilizes systems engineering methods for designing a spacecraft intended for human occupancy and provides a working knowledge of the technologies used to sustain life. Emphasis is placed on deriving functional requirements from stated mission objectives, developing integrated vehicle schematics, and comparing design options by trade study. Prereq., graduate standing in engineering or senior with 3.25 GPA. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

ASEN-5168 (3) Remote Sensing Instrumentation Design

Reviews and makes a detailed analysis of satellite instrumentation techniques and systems to understand the components, limitations, and overall capabilities. Emphasis on optical systems with in-depth treatment of conventional radiometry. Introduces both passive and microwave methods. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

ASEN-5188 (3) Space Systems Engineering

Develop an understanding and appreciation for the fundamentals and pragmatic principles of systems engineering and their application to space missions. This course establishes a working knowledge of the primary techniques systems engineers use to guide the development of complex systems, including: requirements development, system synthesis, good design practices, system optimization, exception handling, interface management and trade studies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

ASEN-5212 (3) Composite Structures and Materials

Develops the macromechanical and micromechanical theory of the elastic behavior and failure of composite laminates. Applies basic theory to a broad range of practical problems including the buckling and vibration of composite plates, columns, and shells. Prereq., senior standing in aerospace or mechanical engineering, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-5215 (3) Descriptive Physical Oceanography

Same as ASEN 4215 and ATOC 5215. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Atmospheric, Oceanic & Space S

ASEN-5216 (3) Neural Signals and Functional Brain Imaging

Same as ASEN 4216 and ECEN 5811. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Bioastronautics & Microgravity

ASEN-5218 (3) Large Space Structures Design

Same as ASEN 4218. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Aerospace Design & System Engr

ASEN-5222 (3) Materials Science for Composite Manufacturing

Prereqs., ASEN 3112 and 4012 or equivalent, or instructor consent. Same as ASEN 4222. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-5227 (3) Mathematics for Aerospace Engineering Sciences 1

Provides an introduction to the methods and mathematics of advanced engineering analysis tailored to aerospace engineering applications. Topics include vector and tensor calculus, ordinary differential equations, and an introduction to the calculus of variations. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Computational & Analytic Meth

ASEN-5235 (3) Introduction to Atmospheric Radiative Transfer and Remote Sensing

Examines fundamentals of radiative transfer and remote sensing with primary emphasis on the Earth's atmosphere; emission, absorption

and scattering by molecules and particles; multiple scattering; polarization; radiometry and photometry; principles of inversion theory; extinction- and emission-based passive remote sensing; principles of active remote sensing; lidar and radar; additional applications such as the greenhouse effect and Earth's radiative energy budget. Same as ATOC 5235. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

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ASEN

ASEN-5245 (3) Radar and Remote Sensing

Examines active techniques of remote sensing, with emphasis on radar fundamentals, radar wave propagation, scattering processes, and radar measurement techniques and design. Examines specific radar systems and applications, such as synthetic aperture radar phased arrays for atmosphere, space, land, and sea applications. Restricted to seniors or graduate students in engineering. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Remote Sensing](#)

ASEN-5255 (3) Environmental Aerodynamics

Reviews the properties and causes of hazards posed by the environment, ranging from atmospheric wind shear to tornadic flows. Involves a multidisciplinary approach, combining analytical, numerical, and scale modeling studies with extensive field measurements, wind energy, and biophysical aerodynamics. Prereq., senior standing in aerospace engineering. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Atmospheric, Oceanic & Space S](#)

ASEN-5307 (3) Engineering Data Analysis Methods

Gives students broad exposure to a variety of traditional and modern statistical methods for filtering and analyzing data. Topics include estimation methods, principal component analyses and spectral analyses. Introduces these methods and provides practical experience with their use. Students carry out problem assignments. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Computational & Analytic Meth](#)

ASEN-5315 (3) Ocean Modeling

Introduces students to basic principles behind, and the current practices in, ocean modeling. Discusses different prevailing approaches. Offers students hands-on experience with the use of supercomputers and work stations for model running and pre- and post-processing. Prereqs., graduate standing or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Atmospheric, Oceanic & Space S

ASEN-5325 (3) Small Scale Processes in Geophysical Fluids

Provides an overview of mixing and wave processes in the oceans and the atmosphere. Topics include turbulent boundary layers in the lower atmosphere and the upper ocean, air-sea interactions, and surface and internal waves. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Atmospheric, Oceanic & Space S

ASEN-5335 (3) Aerospace Environment

Examines the components of the solar-terrestrial system and their interactions to provide an understanding of the re-entry and orbital environments within which aerospace vehicles operate. Includes the sun, solar wind, magnetosphere, ionosphere, thermosphere, radiation belts, energetic particles, comparative environments (Mars, Venus, etc.), orbital debris, spacecraft charging, particle effects on systems, shielding, and satellite drag. Prereq., senior or graduate standing in engineering or related physical sciences. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Atmospheric, Oceanic & Space S

ASEN-5347 (3) Math Methods in Dynamics

Two-part graduate-level course on dynamics. Covers both flexible and rigid multibody analytical dynamics and finite element method for dynamics. Emphasizes formulations that naturally lead to easy computer implementation and stability, linearization, and modern rotational kinematics. Prereqs., graduate standing and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Structures, Mat, & Struc Dynam

ASEN-5417 (3) Numerical Methods for Differential Equations

Provides computational skills and basic knowledge of numerical methods for advanced courses in engineering/scientific computation using Fortran, C, or Matlab. Prereq., APPM 2360 and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Aerospace Engineering Computational & Analytic Meth

ASEN-5426 (3) Neural Systems and Physiological Control

Same as ASEN 4426 and ECEN 4821/5821. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Bioastronautics & Microgravity](#)

ASEN-5436 (3) Brains, Minds, Computers

Prereq., graduate standing. Same as ASEN 4436, ECEN 4831/5831. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Bioastronautics & Microgravity](#)

ASEN-5506 (1-2) Bioastronautics Seminar

Focuses on current topics related to space habitat systems design and research aimed at understanding the effects of spaceflight on living organisms ranging from humans down to microbes. Literature analysis and scientific presentations are expected. Emphasis is on biophysical mechanisms, comprehensive models, and related technology development. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Bioastronautics & Microgravity](#)

ASEN-5519 (1-3) Selected Topics

Reflects upon specialized aspects of aerospace engineering sciences. Course content is indicated in the online Class Search. Prereq., varies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

ASEN-5849 (1-6) Independent Study

Study of special projects. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

ASEN-5940 (3-6) Engineering Research Internship

Grants credit to foreign visiting graduate students for conducting research within the Aerospace Engineering Sciences department. Credits can be transferred to the student's home institution. CU-Boulder students may also receive credit for conducting research outside of the university, either overseas or in the US. Restricted to students in final year of undergraduate work and graduate students from CU-Boulder or foreign institutions. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

ASEN-6008 (3) Interplanetary Mission Design

Exploration of principles and methods related to the design and construction of trajectories for interplanetary mission design. Some topics covered include: two-and three-body motion, gravity assists, maneuver computation, navigation, numerical integration, and construction of orbits. The main focus is on simple ballistic mission designs, such as Galileo or Cassini, however, libration point trajectories will also be covered. Prereq., ASEN 5050 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Astrodynamics & Orbital Mech](#)

ASEN-6009 (1-2) Special Topics Seminar

Presents research and developments in each department's focus areas. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

ASEN-6010 (3) Advanced Spacecraft Dynamics and Control

Studies the dynamic modeling and control of spacecraft containing multiple momentum exchange devices, and/or flexible spacecraft components. Will develop nonlinear feedback control algorithms, explore singularity avoidance strategies. The second half of the course derives analytical methods (D'Alembert's equations, Lagrange's equations, Boltzmann Hamel equations) to model a hybrid rigid/flexible spacecraft system. Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students. Prereq., ASEN 5010 or equivalent or instructor consent. Repeatable for credit up to 6 total credit hours. Prerequisites: Restricted to Engineering (ENGR) graduate students or Aerospace Engineering-Concurrent Degree (C-ASEN) students.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Astrodynamics & Orbital Mech](#)

ASEN-6013 (3) High Speed Propulsion

Covers air-breathing and rocket propulsion cycles, their relative performance trade-offs, and how they fit within the context of a vehicle system. Specific emphasis will be placed on fundamental cycle analyses, component level design, and propulsion/airframe integration for rockets, turbojets, ramjets, scramjets, combined cycles, and other advanced propulsion concepts. Prereq., ASEN 4013 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Thermodynamics and Propulsion](#)

ASEN-6014 (3) Spacecraft Formation Flying

Studies the dynamic modeling and control of spacecraft formations orbiting about a planet. Investigate linear and nonlinear relative motion descriptions, rectilinear and curvilinear coordinates, orbit element difference based descriptions, J2-invariant relative orbits, as well as Lyapunov-based relative motion control strategies. Prereq., ASEN 5050 or equivalent, or instructor consent. May be repeated up to 6 total credit hours.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Systems and Control](#)

ASEN-6020 (3) Optimal Trajectories

Introduces the theory and practice of trajectory optimization. The general theory behind optimization and optimal control will be introduced with an emphasis on the properties of optimal trajectories. The main application will be to space trajectories, but other applications will also be considered. Prereq., ASEN 5050 or instructor consent. Recommended prereq., ASEN 5014. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Astrodynamics & Orbital Mech](#)

ASEN-6021 (3) Viscous Flow

Studies low Reynolds number flows, including incompressible and compressible laminar boundary layer theory; similarity theory; and separation, transition, and turbulent boundary layers. Prereq., ASEN 5051 or equivalent, or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerodynamics & Fluid Mechanics](#)

ASEN-6024 (3) Nonlinear Control Systems

Introduces the analysis and control design methods for nonlinear systems, including Lyapunov and Describing Function methods. Prereq., ASEN 5014. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Systems and Control](#)

ASEN-6028 (3) Graduate Projects II

Exposes MS and PhD students to leadership positions in project management and systems engineering while working a complex aerospace engineering project as part of a project team. The project team may perform some or all of the following project activities during this second semester of the two-semester course sequence: requirements definition, design and design review, build, test, and verification. Prereq., ASEN 5018. Recommended prereq., ASEN 4138, or 5148, or 5158. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerospace Design & System Engr](#)

ASEN-6037 (3) Turbulent Flows

Studies turbulent closure methods and computational procedures used to solve practical turbulent flows. Emphasizes multi-equation models used with time-averaged equations to calculate free-turbulent shear-flows and turbulent boundary layers. Employs spectral methods in direct and large-eddy simulation of turbulence. Prereq., ASEN 5051 or equivalent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerodynamics & Fluid Mechanics](#)

ASEN-6060 (3) Advanced Astrodynamics

Covers Lagrangian and Hamiltonian formalisms for astrodynamics problems, the computation and characterization of space trajectories in highly dynamic environments, computation of periodic orbits, stability analysis of orbital motion, and development of analytical theories for dynamics. Prereq., ASEN 5050 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Aerospace Engineering](#) | [Astrodynamics & Orbital Mech](#)

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Courses

Search by College, Department & Category

College/School

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Search by Course Number

Subject Number

ASEN

ASEN-6061 (3) Molecular Gas Dynamics and DSMC

Describes the composition and flow of gases on a microscopic level to examine the behavior of the molecules that make up a macroscopic flow system. Thermodynamic properties, transport phenomena, and the governing Boltzmann Equation are derived from molecular collision dynamics and the kinetic theory. The Direct Simulation Monte Carlo method is introduced with applications. Restricted to graduate students or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Aerodynamics & Fluid Mechanics](#)

ASEN-6070 (3) Satellite Geodesy

Focuses on the measurement of the Earth's gravitational field, rotational characteristics, and shape using Earth and space-based tracking of artificial satellites. Particular emphasis on satellite altimetry and satellite gravity measurements. Prereq., ASEN 3200 or instructor consent. Credit not granted for this course and ASEN 5060. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Astrodynamics & Orbital Mech](#)

ASEN-6080 (3) Introduction to Statistical Orbit Determination 2

Continuation of ASEN 5070. Emphasizes orthogonal transformation techniques such as Givens and Householder, square root filtering and smoothing, and considers covariance analysis. Also nonlinear filters and dynamic model compensation techniques. Requires term project that involves the application of many of the techniques required for precise orbit determination. Prereq., ASEN 5070. Formerly ASEN 5080. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#)
[Aerospace Engineering](#)
[Astrodynamics & Orbital Mech](#)

ASEN-6090 (3) Advanced Global Navigation Satellite Systems: Software and Applications

Focuses on high-precision applications of Global Navigation Satellite Systems (GNSS) and the software tools that are needed to achieve these precisions. Topics include precise orbital determination, reference frames, atmospheric delays, relativity, clock models, ambiguity resolution, and scientific applications. Prereq., ASEN 5090. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Global Positioning Systems](#)

ASEN-6091 (3) Global Navigation Satellite System (GNSS) Receiver Architecture

Investigates the overall architecture of satellite navigation receivers: including both the analog radio frequency conditioning (antenna to the analog-to-digital converter) and the various signal processing algorithms. Such treatment of the operation of the receiver will provide insight into the trade-offs that go into GNSS as well as the more broad generic spread spectrum receiver design. Recommended prereq., ASEN 5090. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Global Positioning Systems](#)

ASEN-6107 (3) Nonlinear Finite Element Methods

Continuation of ASEN 5007. Covers the formulation and numerical solution of nonlinear static structural problems by finite element methods. Emphasizes the treatment of geometric nonlinearities and structural stability. Prereq., ASEN 5007. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

ASEN-6210 (1-3) Remote Sensing Seminar

Covers subjects pertinent to remote sensing of the Earth, including oceanography, meteorology, vegetation monitoring, and geology. Emphasizes techniques for extracting geophysical information from satellite data. Course requirement for Remote Sensing Certificate. Restricted to graduate students. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Remote Sensing](#)

ASEN-6220 (3) Topics in Remote Sensing

Covers infrared and microwave techniques for remote sensing, emphasizing oceanographic applications, fundamentals of electromagnetic radiation, remote sensing instrumentation (radars and radiometers), and conversion of sensory data to geophysical parameters, including sea surface topography, temperature, and atmospheric moisture. Prereq., graduate standing and instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Remote Sensing](#)

ASEN-6327 (3) Computational Fluid Mechanics

Introduction to advanced computational methods for the solution of fluid mechanics problems on the computer with emphasis on nonlinear flow phenomena. Prereq., ASEN 5417 or instructor consent. Formerly ASEN 5327. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerodynamics & Fluid Mechanics](#)

ASEN-6337 (3) Remote Sensing Data Analysis

Reviews satellite remote sensing instrumentation and methods. Student teamwork involves real satellite data for applications in oceanography, atmospheric science, and terrestrial physics. Students develop problem-solving skills and use the internet to gather satellite and in situ data to address chosen problems. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Remote Sensing](#)

ASEN-6367 (3) Advanced Finite Element Methods for Plates, Shells, and Solids

Continues ASEN 5007. Covers more advanced FEM applications to linear static problems in structural and continuum mechanics. Focuses on modeling, formulation, and numerical solutions of problems modeled as plates, shells, and solids. Includes an overview of advanced variational formulations. Prereqs., introductory graduate level course in FEM and familiarity with linear algebra. Formerly ASEN 5367. Credit not granted for this course and ASEN 5367. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Structures, Mat, & Struc Dynam](#)

ASEN-6427 (3) Advanced Computational Fluid Dynamics

Introduces computational techniques particularly applicable to high-speed gas flows that contain shocks. Complicated numerical methods are developed from relatively simple numerical modules. Prereq., ASEN 5417 or instructor consent. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Aerodynamics & Fluid Mechanics](#)

ASEN-6517 (3) Computational Methods In Dynamics

Covers modeling, computational algorithms and their computer implementation for both linear and nonlinear dynamical systems. Topics covered include transient analysis, wave propagation, multiphysics analysis, and their significant engineering applications. Prereq., ASEN 5022. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Structures, Mat, & Struc Dynam](#)

ASEN-6519 (1-3) Special Topics

Reflects upon specialized aspects of aerospace engineering sciences. Course content is indicated in the online Schedule Planner. Prereq., varies. Prerequisites: Restricted to College of Engineering graduate students or Aerospace Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

ASEN-6849 (1-6) Independent Study

Studies special projects agreed upon by student and instructor.

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

ASEN-6950 (1-6) Master's Thesis

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

ASEN-8990 (1-10) Doctoral Thesis

[College of Engineering & Applied Science](#) [Aerospace Engineering](#) [Specialized Courses](#)

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Courses

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Subject **Number**

ASIA

ASIA-4300 (3) Open Topics in Asian Literature and Culture

Examines selected texts on a particular topic. Taught by regular or visiting faculty. Topics change each term. May be repeated up to 6 total credit hours. Prereq., instructor consent.

[College of Arts & Sciences](#) [Center for Asian Studies](#)

ASIA-4830 (3) Senior Thesis or Project in Asian Studies

Studies an approved Asian topic, following guidelines established by the program director. Undertaken either as an independent study with an Asian studies faculty member. Required for an Asian Studies major. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Asian Studies (ASIA) majors only.

[College of Arts & Sciences](#) [Center for Asian Studies](#)

ASIA-4840 (1-3) Independent Study

Provides an independent study opportunity, by special arrangement with Asian Studies faculty, for students with particular Asian Studies interests. May be repeated up to 6 total credit hours. Restricted to Asian Studies majors.

[College of Arts & Sciences](#) [Center for Asian Studies](#)

ASIA-4930 (1-2) Engage Asia: Internship in Asian Studies

Matches students with supervised internships in which they share academic learning of topics in Asian culture, history, or language with, for example, teachers and students in the Boulder Valley School District. Students work with Center for Asian Studies research and

teaching faculty to, for example, research and prepare lessons they will present in BVSD K-12 classes on world cultures, world geography, world history, and Asian languages. May be repeated up to 6 total credit hours. Recommended prereq., Asian language and culture courses.

[College of Arts & Sciences](#) [Center for Asian Studies](#)

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Courses

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Subject **Number**

ASTR

ASTR-1000 (3) The Solar System

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, Sun, moon, planets, and the origin of life. Offers opportunities to attend nighttime observation sessions at Sommers-Bausch Observatory and Fiske Planetarium. Similar to ASTR 1010, without lab. Also similar to ASTR 1030. Formerly ASTR 1110. Students may receive credit for only one of ASTR 1000, 1110, 1010, or 1030. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-1010 (4) Introductory Astronomy 1

Introduces principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, Sun, moon, planets, and origin of life. Requires nighttime observation sessions at Sommers-Bausch Observatory. Similar to ASTR 1000, but with additional lab experience. Also similar to ASTR 1030. Students may receive credit for only one of ASTR 1010, 1000, 1110, or 1030. Meets MAPS requirement for natural science: lab or non-lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-1020 (4) Introductory Astronomy 2

Introduces principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe. May require nighttime observation sessions at Sommers-Bausch Observatory. Similar to ASTR 1200, but with recitation and sequence link to ASTR 1010. Also similar to ASTR 1040. Students may receive credit for only one of ASTR 1020, 1200, 1120, or 1040. Prereq., ASTR 1010 or 1000. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-1030 (4) Accelerated Introductory Astronomy 1

Covers principles of modern astronomy summarizing our present knowledge about the Earth, Sun, moon, planets, and origin of life. Requires nighttime observation sessions at Sommers-Bausch Observatory. Required in ASTR major/minor. Prereq. or coreq., Calculus I (MATH 1300 or APPM 1350). Students may receive credit for only one of ASTR 1030, 1010, 1000, or 1110. Similar to ASTR 1010 and 1000, but taught at a higher intellectual level, including a significant amount of quantitative analysis. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-1040 (4) Accelerated Introductory Astronomy 2

Covers principles of modern astronomy summarizing our present knowledge about the Sun, stars, birth and death of stars, neutron stars, black holes, galaxies, quasars, and the organization and origins of the universe. May require nighttime observing sessions at Sommers-Bausch Observatory. Required in ASTR major/minor. Includes a recitation. Prereq., ASTR 1030. Prereq. or coreq., Calculus I (MATH 1300 or APPM 1350). Students may receive credit for only one of ASTR 1020, 1040, 1200, or 1120. Similar to ASTR 1020 and 1200 but taught at a higher intellectual level including a significant amount of quantitative analysis. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-1200 (3) Stars and Galaxies

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, neutron stars, black holes, interstellar gas, galaxies, quasars, and the structure and origins of the universe. Offers opportunities to attend nighttime observation sessions at Sommers-Bausch Observatory. Formerly ASTR 1120. Similar to ASTR 1020, without sequence link to ASTR 1010 or recitation. Also similar to ASTR 1040. Students may receive credit for only one of ASTR 1200, 1120, 1020, or 1040. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-2000 (3) Ancient Astronomies of the World

Documents the numerous ways in which observational astronomy and cosmology have been features of ancient cultures. Includes naked eye astronomy, archaeoastronomy, ethnoastronomy, concepts of time, calendrics, cosmogony, and cosmology. Approved for arts and sciences core curriculum: natural science or human diversity.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-2010 (3) Modern Cosmology---Origin and Structure of the Universe

Introduces modern cosmology to nonscience majors. Covers the Big Bang; the age, size, and structure of the universe; and the origin of the elements and of stars, galaxies, the solar system, and life. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-2020 (3) Introduction to Space Astronomy

Discusses reasons for making astronomical observations from space, scientific goals, practical requirements for placing instruments in space, politics of starting new programs, and selected missions. Prereq., ASTR 1010, 1020, 1000, or 1200. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-2030 (3) Black Holes

Black holes are one of the most bizarre phenomena of nature. Students are introduced to the predicted properties of black holes, astronomical evidence for their existence and formation, and modern ideas about space, time, and gravity. Approved for the arts and sciences core curriculum: natural science.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-2040 (3) The Search for Life in the Universe

Introduces the scientific basis for the possible existence of life elsewhere in the universe. Includes origin and evolution of life on Earth and the search for evidence of life in our solar system, especially Mars and Jupiter's moon Europa. Discusses the conditions necessary for life and whether they might arise on planets around other stars. Same as GEOL 2040. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-2500 (3) Gateway to Space

Introduces the basics of atmospheric and space sciences, space exploration, spacecraft design, rocketry, and orbits. Students design, build, and launch a miniature satellite on a high altitude balloon. Explores the current research in space through lectures from industry. Recommended prereqs., APPM 1360 or MATH 2300 and PHYS 1120 or ASTR 1040. Same as ASEN 1400. Similar to ASEN 4500. Prerequisites: Restricted to Astronomy or Physics majors only.

College of Arts & Sciences [Astrophysical & Planetary Sciences](#)

ASTR-2600 (3) Computational Techniques

Introduces practical research skills and provides orientation to computational tools commonly used in research by astrophysicists and planetary scientists.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-2840 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3300 (3) Extraterrestrial Life

Discusses the scientific basis for the possible existence of extraterrestrial life. Includes origin and evolution of life on Earth; possibility of life elsewhere in the solar system, including Mars; and the possibility of life on planets around other stars. Prereq., one-year sequence in a natural science. Same as GEOL 3300.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3510 (4) Observations and Instrumentation 1

Lab course in astronomical observation and instrumentation. Hands-on exercises include obtaining and analyzing multi-wavelength data, basic optical design and instrumentation, and statistical analysis of data, with emphasis on imaging applications. A significant number of night time observation sessions are required. Prereq. or coreq., Calculus 2 (MATH 2300 or APPM 1360), one year of college physics, and one year of college astronomy. Elective for APS majors. Elective for APS minors on space available basis. Prerequisites: Restricted to Astrophysics (ASTR) majors only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3520 (4) Observations and Instrumentation 2

Lab course in observation and instrumentation. Hands-on exercises include obtaining and analyzing multi-wavelength data, optical design and instrumentation, and statistical analysis, with emphasis on spectroscopy. A significant number of night time observation sessions are required. Prereq., ASTR 3510 or instructor consent. Elective for APS majors. Elective for APS minors on space available basis. Prerequisites: Restricted to Astrophysics (ASTR) majors only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3710 (3) Formation & Dynamics of Planetary Systems

Covers the origin of planetary systems and their dynamical evolution. Topics include the physics and chemistry of planetary formation,

orbital mechanics, and extrasolar planets. ASTR 3710, 3720, and 3750 may be taken in any order. Prereqs., PHYS 1110 and 1120, and calculus (MATH 1300 and 2300, or APPM 1350 and 1360). Elective for APS major and minor.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3720 (3) Planets and Their Atmospheres

Explores the physics and chemistry of the atmospheres of Mars, Venus, Jupiter, Saturn, and Titan. Examines evolution of the atmospheres of Earth, Venus, and Mars; and the escape of gases from the Galilean satellites, Titan and Mars; the orbital characteristics of moons, planets, and comets. Uses recent results of space exploration. Prereqs., PHYS 1110 and 1120, and either MATH 1300 and 2300, or APPM 1350 and 1360. Same as ATOC 3720. Elective for APS major and minor.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3730 (3) Astrophysics 1---Stellar and Interstellar

ASTR 3730 and 3830 provide a year-long introduction to physical processes, observations, and current research methods in stellar, interstellar, galactic, and extra-galactic astrophysics, with astronomical applications of gravity, radiation processes, spectroscopy, gas dynamics, and plasma physics. Prereqs. or coreqs., PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3740 (3) Cosmology and Relativity

Special and general relativity as applied to astrophysics, cosmological models, observational cosmology, experimental relativity, and the early universe. Prereqs. or coreqs., PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3750 (3) Planets, Moons, and Rings

Approaches the physics of planets, emphasizing their surfaces, satellites, and rings. Topics include formation and evolution of planetary surfaces, history of the terrestrial planets, and dynamics of planetary rings. Both ASTR 3720 and ASTR 3750 may be taken for credit in any order. Prereqs., PHYS 1110 and 1120, and calculus (MATH 1300 and 2300, or APPM 1350 and 1360). Elective for APS major and minor.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-3760 (3) Solar and Space Physics

Explores the physical processes linking the Sun and planets, emphasizing solar radiative and particulate variability and the response of planetary atmospheres and magnetospheres. Topics include the solar dynamo, solar wind, coronal mass ejections, cosmic ray modulation, magnetospheres, aurora, the space environment, and climate variability. Prereqs./coreqs., PHYS 2130 or 2170 and MATH 2400 or APPM 2350. Recommended prereq., PHYS 3310. Elective for APS major and minor.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-3800 (3) Introduction to Scientific Data Analysis and Computing

Covers analytical and numerical techniques used in scientific data analysis, including statistical analysis, error analysis, functional fitting, spectral analysis, image processing, and testing theoretical compliance. Examples are from space-based and ground-based astronomy. Prereqs. or coreqs., ASTR 1040 or equivalent, PHYS 1120 or equivalent, and MATH 2400 or APPM 2350. Elective for APS major.

[College of Arts & Sciences](#) [Astrophysical & Planetary Sciences](#)

ASTR-3830 (3) Astrophysics 2---Galactic and Extragalactic

ASTR 3730 and 3830 provide a year-long introduction to physical processes, observations, and current research methods in stellar, interstellar, galactic, and extragalactic astrophysics, with astronomical applications of gravity, radiation processes, spectroscopy, gas dynamics, and plasma physics. Prereqs. or coreqs., ASTR 3730, and PHYS 2130 or 2170, and MATH 2400 or APPM 2350. Elective for APS major and minor.

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ASTR

ASTR-4330 (3) Cosmochemistry

Investigates chemical and isotopic data to understand the composition of the solar system: emphasis on the physical conditions in various objects, time scales for change, chemical and nuclear processes leading to change, observational constraints, and various models that attempt to describe the chemical state and history of cosmological objects in general and the early solar system in particular. Prereq., upper-div undergrad or grad standing in physical science. Recommended prereq., upper-div undergrad CHEM, PHYS, or MATH. Same as ASTR 5330 and GEOL 4330.

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ASTR-4800 (3) Space Science: Practice and Policy

Exposes students to current controversies in science that illustrate the scientific method and the interplay of observation, theory, and science policy. Students research and debate both sides of the issues, which include strategies and spin-offs of space exploration, funding of science, big vs. small science, and scientific heresy and fraud. Prereqs., ASTR 1000 or 1200, or equivalent, or PHYS 1110 and 1120, or PHYS 2010 and 2020.

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ASTR-4840 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prereq., instructor consent.

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ASTR-4841 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5110 (4) Atomic and Molecular Processes

Explores the application of quantum physics and statistical mechanics to problems in astrophysics, space physics and planetary science, with an emphasis on radiative processes and spectroscopy of atoms and molecules. Prereq., graduate standing or instructor consent.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5120 (4) Radiative and Dynamical Processes

An introduction to radiative and dynamical processes aimed at graduate students in astrophysics, space physics and planetary science. Covers transport phenomena, the macroscopic treatment of radiation fields, magnetohydrodynamics and dynamical processes associated with planetary orbits and N-body systems. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5140 (3) Astrophysical and Space Plasmas

Teaches magnetohydrodynamics and a few related areas of plasma physics applied to space and astrophysical systems, including planetary magnetospheres and ionospheres, stars, and interstellar gas in galaxies. Prereq., graduate standing in APS or physics. Same as PHYS 5141. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5150 (3) Introductory Plasma Physics

Includes basic phenomena of ionized gases, static and dynamic shielding, linear waves, instabilities, particles in fields, collisional phenomena, fluid equations, collisionless Boltzman equations, Landau damping, scattering and absorption of radiation in plasmas, elementary nonlinear processes, WKB wave theory, controlled thermonuclear fusion concepts, astrophysical applications, and experimental plasma physics (laboratory). Same as PHYS 5150. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5300 (3) Introduction to Magnetospheres

Introduces solar and stellar winds, and planetary and stellar magnetospheres. Acquaints students with the guiding center theory for particle motion, magnetospheric topology, convection, radiation belts, magnetic storms and substorms, and auroras. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5330 (3) Cosmochemistry

Same as ASTR 4330 and GEOL 5330. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5400 (3) Introduction to Fluid Dynamics

Covers equations of fluid motion relevant to planetary atmospheres and oceans, as well as stellar atmospheres; effects of rotation and viscosity; and vorticity dynamics, boundary layers, and wave motions. Introduces instability theory, nonlinear equilibration, and computational methods in fluid dynamics. Same as ATOC 5400. Prerequisites: Restricted to Graduate Students only.

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ASTR-5410 (3) Fluid Instabilities, Waves, and Turbulence

Involves linear and nonlinear analyses of small-scale waves and instabilities in stratified fluids, with effects of rotation. Studies internal gravity and acoustic waves with terrestrial, planetary, and astrophysical applications. Also studies thermal and double-diffusive convection, homogeneous and stratified shear flow instabilities. Examines these topics from the onset of small amplitude disturbances to their nonlinear development and equilibration. Prereq., ASTR 5400 or ATOC 5060. Same as ATOC 5410. Prerequisites: Restricted to Graduate Students only.

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ASTR-5540 (3) Mathematical Methods

Presents an applied mathematics course designed to provide the necessary analytical and numerical background for courses in astrophysics, plasma physics, fluid dynamics, electromagnetism, and radiation transfer. Topics include integration techniques, linear and nonlinear differential equations, WKB and Fourier transform methods, adiabatic invariants, partial differential equations, integral equations, and integrodifferential equations. Draws illustrative examples from the areas of physics listed above. Same as ATOC 5540. Prerequisites: Restricted to Graduate Students only.

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ASTR-5550 (3) Observations, Data Analysis and Statistics

Introduces multi-wavelength observational techniques, their limitations and effects of various noise sources. Describes basic data handling, error analysis, and statistical tests relevant to modeling. Topics include probability distributions, model-fitting algorithms, confidence intervals, correlations, sampling and convolution. Students derive physical measurements and uncertainties with hands-on analysis of real datasets. Prereq., senior level undergraduate physics or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5560 (3) Radiative Processes in Planetary Atmospheres

Applies radiative transfer theory to problems in planetary atmospheres, with primary emphasis on the Earth's atmosphere; principles of atomic and molecular spectroscopy; infrared band representation; absorption and emission of atmospheric gases; radiation flux and flux divergence computations; radiative transfer and fluid motions; additional applications such as the greenhouse effect; and inversion methods and climate models. Prereq. or coreq., ASTR 5110. Recommended prereq., ATOC 5235. Same as ATOC 5560. Prerequisites: Restricted to Graduate Students only.

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ASTR-5700 (3) Stellar Structure and Evolution

Examines basic stellar astronomy: stellar classifications, kinematics, populations and distributions, and H-R diagrams. Covers principles of stellar structure, including energy generation and energy transport by radiation and convection. Includes stellar evolution theory, including compact objects. Prereq., Senior Level undergraduate physics. Prerequisites: Restricted to Graduate Students only.

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ASTR-5710 (3) High-Energy Astrophysics

Studies astrophysics of UV, x-ray, gamma-ray, and cosmic-ray sources, including fundamentals of radiative and particle processes, neutron stars, black holes, pulsars, quasars, supernovas and their remnants; stellar flares; accretion disks; binary x-ray sources; and other cosmic x-ray sources. Prereq., senior-level undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5720 (3) Galaxies

Highlights the classification, structure, content, dynamics, and other observational properties of galaxies, active galaxies, and clusters of galaxies. Discusses Hubble's Law, the cosmic distance scale, and the intergalactic medium. Prereq., senior-level undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5730 (3) Stellar Atmospheres and Radiative Transfer

Explores stellar atmospheres: basic stellar atmospheres, spectral line formation, interpretation of stellar spectra, and model atmospheres. Examines solar physics: the Sun as a star, solar cycle, chromospheric and coronal structure, energy balance, magnetic field, and solar wind. Prereqs., ASTR 5110 and undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5740 (3) Interstellar Astrophysics

Highlights structure, dynamics, and ecology of the interstellar medium, stressing the physical mechanisms that govern the thermal, ionization, and dynamic state of the gas and dust; observations at all wavelengths; star formation; and relation to external galaxies.

Prereq., ASTR 5110 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5760 (3) Astrophysical Instrumentation

Covers the fundamentals underlying the design, construction, and use of instrumentation used for astrophysical research ranging from radio-wavelengths to gamma rays. Topics include Fourier transforms and their applications, optical design concepts, incoherent and coherent signal detection, electronics and applications, and signal acquisition and processing. Prereq., Senior Level undergraduate physics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5770 (3) Cosmology

Studies the smooth universe, including Friedmann-Robertson-Walker metric, Friedmann equations, cosmological parameters, inflation, primordial nucleosynthesis, recombination, and cosmic microwave background. Also studies the lumpy universe, including linear growth of fluctuations, power spectra of CMB and galaxies, dark matter, and large scale flows. Covers galaxy formation and intergalactic medium. Prereq., Senior Level undergraduate physics or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5800 (3) Planetary Surfaces and Interiors

Examines processes operating on the surfaces of solid planets and in their interiors. Emphasizes spacecraft observations, their interpretation, the relationship to similar processes on Earth, the relationship between planetary surfaces and interiors, and the integrated geologic histories of the terrestrial planets and satellites. Prereq., graduate standing in physical sciences or instructor consent. Same as GEOL 5800. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5810 (3) Planetary Atmospheres

Covers the structure, composition, and dynamics of planetary atmospheres. Includes the origin of planetary atmospheres, chemistry and cloud physics, greenhouse effects, climate, and the evolution of planetary atmospheres - past and future. Same as ATOC 5810 and GEOL 5810. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Astrophysical & Planetary Sciences

ASTR-5820 (3) Origin and Evolution of Planetary Systems

Considers the origin and evolution of planetary systems, including proto-planetary disks, condensation in the solar nebula, composition of

meteorites, planetary accretion, comets, asteroids, planetary rings, and extrasolar planets. Applies celestial mechanics to the dynamical evolution of solar system bodies. Prereq., graduate standing in physical sciences or instructor consent. Same as ATOC 5820 and GEOL 5820. Prerequisites: Restricted to Graduate Students only.

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ASTR

ASTR-5830 (3) Topics in Planetary Science

Examines current topics in planetary science, based on recent discoveries, spacecraft observations, and other developments. Focuses on a specific topic each time the course is offered, such as Mars, Venus, Galilean satellites, exobiology, comets, or extrasolar planets. May be taken twice for credit. Same as ATOC 5830 and GEOL 5830. Prerequisites: Restricted to Graduate Students only.

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ASTR-5835 (1) Seminar in Planetary Science

May be repeated up to 4 total credit hours to meet candidacy requirements. Prereq., graduate standing or instructor consent; Senior Level undergraduate physics. Same as ATOC 5835 and GEOL 5835. Prerequisites: Restricted to Graduate Students only.

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ASTR-5920 (1-6) Reading and Research in Astrophysical and Planetary Sciences

May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

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ASTR-6000 (1) Seminar in Astrophysics

Studies current research and research literature on an astrophysical topic. Students and faculty give presentations. Subjects vary each semester. May be repeated for a total of 4 credit hours to meet candidacy requirements. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

ASTR-6610 (3) Earth and Planetary Physics 1

Examines mechanics of deformable materials, with applications to earthquake processes. Introduces seismic wave theory. Other topics include inversion of seismic data for the structure, composition, and state of the interior of the Earth. Same as GEOL 6610 and PHYS 6610. Prerequisites: Restricted to Graduate Students only.

ASTR-6620 (3) Earth and Planetary Physics 2

Covers space and surface geodetic techniques as well as potential theory. Other topics are the definition and geophysical interpretation of the geoid and of surface gravity anomalies; isostasy; post-glacial rebound; and tides and the rotation of the Earth. Same as GEOL 6620 and PHYS 6620. Prerequisites: Restricted to Graduate Students only.

ASTR-6630 (3) Earth and Planetary Physics 3

Examines the solar system, emphasizing theories of its origin and meteorites. Highlights distribution of radioactive materials, age dating, heat flow through continents and the ocean floor, internal temperature distribution in the Earth, and mantle convection. Also covers the origin of the oceans and atmosphere. Same as GEOL 6630 and PHYS 6630. Prerequisites: Restricted to Graduate Students only.

ASTR-6650 (1-3) Seminar in Geophysics

Advanced seminar studies in geophysical subjects for graduate students. Same as GEOL 6650 and PHYS 6650. Prerequisites: Restricted to Graduate Students only.

ASTR-6940 (1) Master's Degree Candidate

ASTR-6950 (1-6) Master's Thesis

ASTR-7500 (1-3) Special Topics in Astrophysical and Planetary Sciences

Acquaints students with current research in astrophysical and planetary sciences. Topics vary each semester. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

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ASTR-7920 (1-6) Reading and Research in Astrophysical and Planetary Sciences

May be repeated up to 6 total credit hours. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

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ASTR-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

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ATLS

[ATLS-1220 \(4\) Virtual Worlds: An Introduction to Computer Science](#)

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as CSCI 1220.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

[ATLS-1240 \(3\) The Computational World](#)

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as CSCI 1240.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

[ATLS-1710 \(3\) Tools and Methods for Engineering Computing](#)

Designed for students with little or no programming background. Students learn procedural and object-oriented programming through development of games, simulations, and animations using Flash/Actionscript, VB/Excel, Java, MATLAB, and real-world applications. Activities are oriented toward smaller projects that address topics in beginning science, engineering, and mathematics courses. Students gain practical, applicable skills. Same as APPM 1710.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-2000 (3) The Meaning of Information Technology

Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society. HUEN 2020 is restricted to ENGR majors only. ATLS 2000 is restricted to TAM students. ATLS 2000 and HUEN 2020 are the same course.

Cross College Programs Alliance for Technology, Learning, and Society (ATLAS)

ATLS-2036 (3) Introduction to Media Studies

Serves as an introduction to media studies, including theories and methodologies for undertaking media scholarship within the humanities. Topics may include the history of the book, text messaging, blogging, and gaming, as well as digital fiction and poetry. Same as ENGL 2036.

Cross College Programs Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3010 (3) Digital Media 1

Introduces techniques, software, and related concepts of digital design and image making through individual and group projects. Emphasizes digital animation, digital audio, digital video and website design and development as a means to formal and expressive ends. Introduces students to critical readings and theories related to digital media practice. May be repeated up to 6 total credit hours. Prereq., ATLS 2000. Restricted to TAM students.

Cross College Programs Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3020 (3) Digital Media 2

A continuation of Digital Media 1 (ATLS 3010), this course introduces students to advanced digital media development including interactive programming, scripting, and database functionality. Emphasizes a historical and conceptual understanding of programming and computational theories. May be repeated for a total of 6 credit hours. Prereq., ATLS 2000 and ATLS 3010. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

Cross College Programs Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3030 (3) Fundamentals of Digital Design

The fundamental goal of this course is to teach students how to use digital design tools effectively and compellingly. Through lectures, class discussions, projects and critiques, this course will cover the critical, theoretical, and technical skill sets necessary to become a more engaging, thoughtful, and articulate designer. Prereqs., ATLS 2000 and 3010. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

Cross College Programs Alliance for Technology, Learning, and Society (ATLAS)

ATLS-3110 (3) Motion Design

An animation-based projects course that advances student understanding of motion design in today's culture. Through active production and critical analysis, students will create new media projects and critically examine the history, social implications, and impacts of these forms of mass media. Prereq., ATLS 2000. Recommended prereq., ATLS 3010.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-3112 (1-3) Digital and Social Systems Professional Development

Supports students in developing professional skills and practices in human computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as CSCI 3112.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-3120 (3) Net Presence

An Internet-based projects course that advances student understanding of Internet culture. Through active production and critical analysis, students will explore their individual roles in the digital landscape and critically examine the social implications and impacts of digital communities. Prereqs., ATLS 2000 and 3010. Recommended prereq., ATLS 3020.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-3500 (1-3) Client Projects in Technology, Arts and Media

Allows undergraduate students to work on collaborative projects with faculty and with external organizations under faculty supervision. The course will focus on teamwork, conceptual planning, technical design and development, and working within real-world client environments. Critical skills include project research, planning, design, development, trouble-shooting, and presentation. Prereqs., ATLS 2000, 3010, or instructor consent. Recommended prereq., ATLS 3020. May be repeated up to 6 total credit hours.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-3519 (1-3) Special Topics in Technology, Arts, and Media

Analyzes special interest areas of multidisciplinary technology, arts and media research and practice. May be repeated up to 12 total credit hours for different topics. Prereq., ATLS 2000. Recommended prereq., ATLS 3010. Same as ATLS 3519, 5519 and 6519.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-4010 (3) Capstone Projects

The focus of this advanced practicum course is the development of an individual thesis project. Specific class sessions will feature a combination of lectures, demonstrations, guest speakers, lab sessions, and critiques. This course also entails group work, portfolio development, critical theoretical readings, and a significant written component. May be repeated up to 6 total credit hours. Prereqs., ATLS 2000, 3010, and 3020. Restricted to students with minor in Technology, Arts & Media (MTAM). Prerequisites: Restricted to students with minor in Technology, Arts, and Media (MTAM).

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-4519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Analyzes special interest areas of multidisciplinary technology, arts and media research and practice. May be repeated up to 9 total credit hours. Prereq., instructor consent. Recommended prereqs., ATLS 2000, ATLS 3010, and ATLS 3020. Same as ATLS 3519, 5519 and 6519.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-4809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-4900 (1-6) Undergraduate Independent Study

Provides opportunities for independent study at the upper-division undergraduate level. Students work on research or a creative project guided by faculty. May be repeated up to 9 total credit hours. Prereqs., ATLS 3010, 3020, and consent of instructor.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5150 (1) Managing Effectively in a Changing Telecommunications Environment

Provides students with an opportunity to join international managers and policy makers from around the world in an intensive seminar focused on the challenges of managing in a telecommunications environment in an era of technological change. Guest lecturers provide an effective overview of the cutting-edge issues managers face in telecom and technology companies around the world. TLEN 5150 and ATLS 5150 are the same course.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5210 (3) Global Development I

Introduces students to the theories and policy of international development. The course will examine the role of multilateral agencies, foundations, aid organizations, corporate entities and academia in development as both an industry and a research field. The course will focus on development movements and their outcomes, the inter-related nature of development and its effect on policies and programs, and critiques. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5220 (3) Global Development II

Explores the impact of economic, geographical and social/cultural conditions on development outcomes through standalone course components taught by subject matter experts in region and in residency at ATLAS. Components may include, but are not limited to, development economics, environmental sustainability, public health, climate change, globalization and migration, religion, and gender as these broad themes relate to development. Prereq., ATLS 5210. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5230 (3) Case Studies in Information and Communication Technology for Development

Serves as foundation course for MS-ICTD program. Students will evaluate case studies across a range of technologies and applications. Students will learn how to match available technologies to human and environmental needs and resources, be introduced to the seminal work and leaders in the field, and discuss the future of ICTD as an emerging area of academic focus. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5240 (3) Information and Communication Technology for Development Laboratory

Prepares students for the semester-long practicum. Students work in teams to design ICTD interventions that address unique socio-economic and environmental development issues. Teams will design a variety of ICTD interventions, including telehealth and distance education programs, communication networks, and pro-development ICTD policies. Topics will be chosen by teams and guided by program faculty and external domain experts. Prereq., ATLS 5230. Prerequisites: Restricted to Graduate Students only.

Cross College Programs | Alliance for Technology, Learning, and Society (ATLAS)

ATLS-5250 (3) Fieldwork Methods for ICTD Practitioners

Introduces methods and models that can be employed in ICTD program development and deployment. Examines the applications of participatory research, value-centric design, program scale, cross-disciplinary work, and appropriate monitoring and evaluation. The goal of this course is to build student confidence around existing evaluation toolkits and methods, while advancing multi-method approaches to designing and analyzing ICTD initiatives. Prerequisites: Restricted to Graduate Students only.

ATLS-5519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Same as ATLS 3519, 4519. Prerequisites: Restricted to Graduate Students only.

ATLS-5610 (6) Startup Practicum

Presumes that entrepreneurship can be learned through the conception, build, and launch of an original product or service by student teams within a single semester. Immerses students in the daily leadership and innovation challenges of the startup environment and serves as a clinic in thinking, decision making and mental agility that will benefit any area of business--not just startups. Prerequisites: Restricted to Graduate Students only.



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ATLS

ATLS-5620 (3) User Centered Design 1

Emphasizes that user-centered design is the first and primary consideration in the design process. UCD teaches how to design successful interactions from research into users' behaviors, attitudes and expectations via three key elements to designing successful user experiences: 1) Listen, Observe, and Research; 2) Concept and Design for Your Users; 3) Deliver/Launch. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5630 (3) Front-End Development

Covers the front end environment--HTML 5, CSS3, JS. Introduces students to HTML and emphasizes semantic use of elements and standards-based, valid code. CSS use focuses on separating content from presentation in order to decrease maintenance time, speed up development, improve download speed, and design capabilities. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5640 (4) Design Thinking

Explores design thinking and how it can be applied conceptually and practically to innovation in areas as diverse as business organization and product development to topics and areas including but not limited to, story, design, UX, interaction design, communication strategy and presentation. Fast-paced, project-based, and immersive, students will work in small teams to discover solutions to real-world problems. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5650 (3) Introduction to Programming

Provides a hands-on introduction to programming logic, environments, and execution using Ruby as the primary programming language. Covers basic programming principle, syntax, design patterns, and best industry practices while focusing on developing elegant, problem-solving skills through code. Prerequisites: Restricted to Graduate Students only.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5660 (3) Creative Code

Exposes students to front-end, web-based design and development processes and best practices. WordPress will be used as the back end CMS. Students will learn how to design and develop using WordPress as a framework. At the end of the semester, students will present a final project to illustrate what they have learned and the logic of their build. Recommended prereqs., exposure to HTML, CSS, JavaScript, PHP and MySQL, and previous experience with WordPress for blogging and/or content publication. Prerequisites: Restricted to Graduate Students only.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5670 (3) Content Strategies

Experiments with different frameworks on how to combine messaging with creative to communicate complex ideas, brand story, product, and finally measure success. Gain experience and expertise with the various content types and channels, with an understanding of how to apply them and the capabilities to do so in solving creative and business problems. Prerequisites: Restricted to Graduate Students only.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course. Prerequisites: Restricted to Graduate Students only.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-5900 (1-6) Masters Level Independent Study

Provides opportunities for independent study and research at the Masters level. Students work on research project guided by faculty. May be repeated up to 6 total credit hours. Prereq., instructor consent. Restricted to ATLS graduate students in good academic standing. Prerequisites: Restricted to Graduate Students only.

Cross College Programs [Alliance for Technology, Learning, and Society \(ATLAS\)](#)

ATLS-6519 (1-3) Advanced Special Topics in Technology, Arts, and Media

Same as ATLS 3519, 4519. Prerequisites: Restricted to Graduate Students only.

ATLS-6910 (6) Information and Communication Technology for Development Practicum

This practicum allows MS-ICTD students to synthesize what they have learned and test their readiness for a career in ICTD. Practicum assignments are arranged under the supervision of the MS-ICTD Program Director and involve work with a non-governmental organization, development agency or technology/policy entity. Successful completion is required for graduation from the MS-ICTD Program. Prereqs., ATLS 5210,5220, 5230, 5240 and 5250.

ATLS-7000 (1) ATLAS Seminar

This student/faculty seminar critically examines issues in technology, media and society from the multiple interdisciplinary perspective of the gathered participants. Topics may include: IT and business, security, ethics, globalization, digital divide, IT and education, human computer interaction and others. May be repeated up to 8 total credit hours. Instructor permission required. Prerequisites: Restricted to Graduate Students only.

ATLS-7800 (2) Online Course Design for the Foreign Languages

Learn about the challenges and affordances of designing online foreign languages courses. Read research articles and book chapters pertaining to instructional design issues and online teaching strategies. Experiment with the latest forms of educational technologies. Students enrolled in the course will design and teach a two-week online language course. Prereq., two years of language teaching experience at the college level.

ATLS-7900 (1-6) Doctoral Level Independent Study

Provides opportunities for independent study and research at the Doctoral level. Students perform independent research under faculty supervision. May be repeated up to 6 total credit hours. Prereq., instructor consent. Restricted to ATLS PHD students in good academic standing. Prerequisites: Restricted to Graduate Students only.

ATLS-8990 (1-10) Doctoral Dissertation

Approved research conducted under the supervision of members of the graduate faculty. Investigates some specialized topic or field in the area of interdisciplinary information and communication technology. All doctoral students must register for at least 30 hours of

dissertation credit as part of the requirement for the ATLAS doctoral degree. Prereq., instructor consent. Restricted to ATLS PHD students in good academic standing. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Alliance for Technology, Learning, and Society \(ATLAS\)](#)



Courses

Search by College, Department & Category

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Subject **Number**

ATOC

ATOC-1050 (3) Weather and the Atmosphere

Introduces principles of modern meteorology for nonscience majors, with emphasis on scientific and human issues associated with severe weather events. Includes description, methods of prediction, and impacts of blizzards, hurricanes, thunderstorms, tornadoes, lightning, floods, and firestorms. Approved for GT-SC1. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

ATOC-1060 (3) Our Changing Environment: El Nino, Ozone, and Climate

Discusses the Earth's climate for nonscience majors, focusing on the role of the atmosphere, oceans, and land surface. Describes the water cycle, atmospheric circulations, and ocean currents, and how they influence global climate, El Nino, and the ozone hole. Discusses human impacts from climate change. Prereq., ATOC 1050. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

ATOC-1070 (1) Weather and the Atmosphere Laboratory

Optional laboratory for ATOC 1050. Laboratory experiments illustrate fundamentals of meteorology. Covers collection, analysis, and discussion of data related to local weather. Uses computers for retrieval and interpretation of weather data from Colorado and across the U.S. Prereq. or coreq., ATOC 1050 or instructor consent. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

ATOC-3070 (3) Introduction to Oceanography

Investigates the broad-scale features and dynamics of the Earth's oceans. The course is roughly divided amongst the four major, interrelated disciplines of oceanography: marine geology, marine chemistry, physical oceanography (i.e. circulation), and marine biology. Specific topics include sea floor spreading, marine sediments, salinity, biogeochemical cycles, currents, waves, tides, primary production, marine ecology, marine resources, global warming, and much more. Prereq., any two-course sequence of natural science courses. Same as GEOL 3070. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-3300 (3) Analysis of Climate and Weather Observations

Discusses instruments, techniques, and statistical methods used in atmospheric observations. Covers issues of data accuracy and analysis of weather maps. Provides application to temperature and precipitation records, weather forecasting, and climate change trends. Uses computers to access data sets and process data. Prereqs., ATOC 1050 and 1060, or ATOC 3600/GEOG 3601/ENVS 3600, or GEOG 1001 and 1-semester calculus. Same as GEOG 3301. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-3500 (3) Air Chemistry and Pollution

Examines the composition of the atmosphere, and sources of gaseous and particulate pollutants: their chemistry, transport, and removal from the atmosphere. Applies general principles to acid rain, smog, and stratospheric ozone depletion. Prereqs., two semesters of chemistry. ATOC 3500 and CHEM 3151 are the same course. CHEM 3151 was formerly CHEM 3500. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-3600 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system. Covers the hydrological cycle and its role in climate, climate stability, and global change. Includes forecasting climate and its application and human dimensions. Prereqs., ATOC 1050 and 1060, or ATOC 3300/GEOG 3301, or GEOG 1001 and 1-semester calculus. Same as GEOG 3601/ENVS 3600. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-3720 (3) Planets and Their Atmospheres

Explores the physics and chemistry of the atmospheres of Mars, Venus, Jupiter, Saturn, and Titan. Examines evolution of the atmospheres of Earth, Venus, and Mars; and the escape of gases from the Galilean satellites, Titan and Mars; the orbital characteristics of moons, planets, and comets. Uses recent results of space exploration. Elective for APS major and minor. Prereq., PHYS 1110--1120,

and either MATH 1300--2300, or APPM 1350--1360, or instructor consent. Same as ASTR 3720. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Astronomy (ASTR) or Atmospheric & Oceanic Sciences (ATOC) majors only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4215 (3) Descriptive Physical Oceanography

Introduces descriptive and dynamical physical oceanography, focusing on the nature and dynamics of ocean currents and their role in the distribution of heat and other aspects of ocean physics related to the Earth's climate. Dynamical material limited to mathematical descriptions of oceanic physical systems. Restricted to seniors. Same as ATOC 5215 and ASEN 4215. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4500 (1-3) Special Topics in Atmospheric and Oceanic Sciences

Acquaints students with current research in atmospheres, oceans, and climate. Topics may vary each semester. May be repeated for a total of 9 total credit hours within the degree. Students may register for more than one section of this course in the same semester.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4700 (3) Weather Analysis & Forecasting

Utilizing a range of operational weather observations to analyze current weather conditions, providing hands-on experience interpreting observations and relating those observations to the physical principles that govern atmospheric behavior is the course emphasis. It focuses on how to read weather reports, analyze observations, and how to prepare weather maps to analyze current conditions and how to interpret numerical weather forecasts. Prereqs., ATOC 1050 or 1060. Recommended prereq., ATOC 4720. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4720 (3) Introduction to Atmospheric Physics and Dynamics

Introduces the fundamental physical principles that govern the atmosphere, and provides an elementary description and interpretation of a wide range of atmospheric phenomena. Topics include atmospheric structure and composition, electromagnetic radiation, clouds, precipitation, energy balance, atmospheric motion, and climate. Prereqs., one year of calculus and one year of physics with calculus.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4750 (3) Desert Meteorology and Climate

Introduces students to the dynamic causes of deserts in the context of atmospheric processes and land-surface physics. Discusses

desert severe weather, desert microclimates, human impacts and desertification, inter-annual variability in aridity (drought), the effects of deserts on global climate, and the impact of desert climate on humans. Prereq., ATOC 1050 or equivalent. Same as ATOC 5750.

Approved for arts and sciences core curriculum: natural sciences.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4800 (3) Policy Implications of Climate Controversies

Examines controversial issues related to the environment, including climate change. Covers scientific theories and the intersection between science and governmental policy. Includes discussion, debate, and critical reading of textual materials. Prereqs., ATOC 1060 or 3600. Credit not granted for this course and ATOC 5000.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4900 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-4950 (1-3) Honors Thesis

Students work independently on a research topic under the guidance of a faculty member. A written thesis and an oral presentation of the work are required. Registration by arrangement and with consent of faculty mentor. Prereq., junior or senior standing, and minimum 3.00 GPA. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5000 (3) Critical Issues in Climate and the Environment

Discusses current issues such as ozone depletion, global warming, and air quality for graduate students in nonscientific fields. Provides the scientific background necessary to understand, follow scientific developments, and critically evaluate these issues. Same as ENVS 5830. Credit not granted for this course and ATOC 4800.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5050 (3) Introduction to Atmospheric Dynamics

Covers atmospheric motion and its underlying mathematical and physical principles. Explores the dynamics of the atmosphere and the mathematical laws governing atmospheric motion. Topics include atmospheric composition and thermodynamics, conservation laws, geostrophic balance, vorticity dynamics, boundary layers, and baroclinic instability. ATOC graduate core course. Prerequisites: Restricted

to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5051 (3) Introduction to Physical and Chemical Oceanography

Provides fundamental knowledge of the basic dynamics and chemical composition of the ocean. Prereq., calculus. ATOC graduate core course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5060 (3) Dynamics of the Atmosphere

Examines large-scale motions in a stratified rotating atmosphere, and quasi-geostrophic flow, barotropic and baroclinic instabilities, cyclogenesis, global circulations, and boundary layer processes. Ageostrophic motions, including Kelvin waves, internal gravity waves, and the theory of frontogenesis are also considered. Prereq., ATOC 5050 or equivalent. ATOC graduate core course.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5061 (3) Dynamics of Oceans

Explores theories of the large-scale ocean, including quasigeostrophic, planetary geostrophic, and shallow water equations. Topics may vary to focus on ocean climate (e.g. thermocline, westward intensification), ocean waves (e.g. gravity, Rossby, and Kelvin), or ocean models (toy, analytic, and numerical). Maybe repeated up to 9 total credit hours. Prereqs., ATOC 5400 and ATOC 5051 or 5060 or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5151 (3) Atmospheric Chemistry

Reviews basic kinetics and photochemistry of atmospheric species and stratospheric chemistry with emphasis on processes controlling ozone abundance. Tropospheric chemistry focusing on photochemical smog, acid deposition, oxidation capacity of the atmosphere, and global climate change. Prereq., graduate standing or instructor consent. ATOC graduate core course. Same as CHEM 5151.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5215 (3) Descriptive Physical Oceanography

Same as ATOC 4215 and ASEN 5215. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5235 (3) Introduction to Atmospheric Radiative Transfer and Remote Sensing

Examines fundamentals of radiative transfer and remote sensing with primary emphasis on the Earth's atmosphere; emission, absorption and scattering by molecules and particles; multiple scattering; polarization; radiometry and photometry; principles of inversion theory; extinction- and emission-based passive remote sensing; principles of active remote sensing; lidar and radar; additional applications such as the greenhouse effect and Earth's radiative energy budget. ATOC graduate core course. Same as ASEN 5235. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

ATOC-5300 (3) The Global Carbon Cycle

Covers the role of the ocean, terrestrial biosphere, and atmosphere in the global carbon cycle. Specific topics include marine carbonate chemistry, biological production, terrestrial fluxes, anthropogenic emissions, and the evolution of the global carbon cycle in a changing climate. Prereq., graduate standing in a physical science or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

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ATOC

ATOC-5400 (3) Introduction to Fluid Dynamics

Covers equations of fluid motion relevant to planetary atmospheres and oceans, and stellar atmospheres; effects of rotation and viscosity; and vorticity dynamics, boundary layers, and wave motions. Introduces instability theory, nonlinear equilibration, and computational methods in fluid dynamics. Prereq., partial differential equations or equivalent. Same as ASTR 5400. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

ATOC-5410 (3) Fluid Instabilities, Waves, and Turbulence

Nonlinear waves and instabilities; wave-mean and wave-wave interactions, resonant triads; secondary instability and transition to turbulence; diagnosis, modeling, and parameterization of turbulent flows in geophysics and astrophysics. Prereq., ASTR 5120, ATOC 5060, or 5400. Same as ASTR 5410.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

ATOC-5540 (3) Mathematical Methods

Applied mathematics course; provides necessary analytical background for courses in plasma physics, fluid dynamics, electromagnetism, and radiative transfer. Covers integration techniques, linear and nonlinear differential equations, WKB and Fourier transform methods, adiabatic invariants, partial differential equations, integral equations, and integrodifferential equations. Same as ASTR 5540. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Atmospheric & Oceanic Sciences](#)

ATOC-5560 (3) Radiative Processes in Planetary Atmospheres

Application of radiative transfer theory to problems in planetary atmospheres, with primary emphasis on the Earth's atmosphere; principles of atomic and molecular spectroscopy; infrared band representation; absorption and emission of atmospheric gases; radiation flux and flux divergence computations; radiative transfer and fluid motions; additional applications such as the greenhouse effect, inversion methods and climate models. Recommended prereq., ATOC 5235. Same as ASTR 5560.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5600 (3) Physics and Chemistry of Clouds and Aerosols

Clouds and aerosols are ubiquitous in planetary atmospheres, where they impact climate, atmospheric chemistry, remote sensing, and weather. Applies basic microphysical, radiative, and chemical processes affecting particles to issues in current literature. ATOC graduate core course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5750 (3) Desert Meteorology and Climate

Same as ATOC 4750.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5760 (3) Astrophysical Instrumentation

Covers the fundamentals underlying the design, construction, and use of instrumentation used for astrophysical research ranging from radio-wavelengths to gamma rays. Topics include: Fourier transforms and their applications; optical design concepts; incoherent and coherent signal detection; electronics and applications; signal acquisition and processing. Prereq., graduate standing.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5810 (3) Planetary Atmospheres

Covers the structure, composition, and dynamics of planetary atmospheres. Also includes origin of planetary atmospheres, chemistry and cloud physics, greenhouse effects, climate, and the evolution of planetary atmospheres past and future. Prereq., graduate standing in a physical science, or instructor consent. Same as ASTR/GEOL 5810. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5820 (3) Origin and Evolution of Planetary Systems

Reviews protoplanetary disks, condensation in the solar nebula, composition of meteorites, planetary accretion, comets and asteroids, planetary rings, and extrasolar planets. Applies celestial mechanics to the orbital evolution of solar system bodies. Prereq., graduate

standing in a physical science, or instructor consent. Same as ASTR 5820 and GEOL 5820. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5830 (3) Topics in Planetary Science

Covers current topics in planetary science based on recent discoveries, spacecraft observations, or other developments. Focuses on a specific topic such as Mars, Venus, Galilean satellites, exobiology, comets, or extrasolar planets. May be repeated up to 6 total credit hours, provided the topics vary. Prereq., graduate standing in physical sciences, or instructor consent. Same as ASTR 5830 and GEOL 5830.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5835 (1) Seminar in Planetary Science

Studies current research on a topic in planetary science. Subjects may vary each semester. May be repeated up to 4 total credit hours to meet candidacy requirements. Prereq., graduate standing or instructor consent. Same as ASTR 5835 and GEOL 5835. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-5900 (1-6) Independent Study

May be repeated up to 6 total credit hours. Students may register for more than one section of this course in the same semester. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-6020 (1) Seminar in Atmospheric and Oceanic Sciences

Studies an area of current research in the atmospheric and oceanic sciences. Students read selected papers from the literature. Students and faculty give presentations and participate in discussions. May be repeated for a total of 6 credit hours within the degree. May be repeated for a total of 3 credit hours within a semester. Prereq., graduate standing and instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Atmospheric & Oceanic Sciences

ATOC-6100 (3) Modeling Weather and Climate

Discusses background theory and procedures used for modeling climate on a variety of space and time scales. Includes numerical simulation of weather and climate with models in a hierarchy of complexity, assessments of error growth, prediction of circulations and impact of radiative and other influences. Explores various numerical methods, develops core computing skills, and considers data handling and visualization. Consists of a combination of lectures and laboratory. Prereq., ATOC 5050, calculus, or instructor consent.

ATOC-6950 (1-6) Master's Thesis

ATOC-7500 (1-3) Special Topics in Atmospheric and Oceanic Sciences

Acquaints students with current research in atmospheres, oceans, and climate. Topics may vary each semester. May be repeated up to 9 total credit hours. Students may register for more than one section of this course in the same semester. Prerequisites: Restricted to Graduate Students only.

ATOC-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.



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Subject **Number**

BADM

BADM-1250 (1) First Year Seminar for Business

Surveys the entire undergraduate experience and includes topics, issues, and practices that focus on the professional, academic, and leadership growth of a business student. It addresses how to make an effective transition to college and puts students on a path to become well-rounded, engaged and globally-minded. Students will acquire the knowledge and skills to take advantage of all the opportunities and support services available to them while learning to balance the challenges and expectations of their business degree. A sample of the topics covered include: transition to college, dealing with academic rigor, developing a professional tool kit--resume and cover letter preparation, interview skills, project management, working in teams and public speaking--and preparing for the role as a global business leader. Prerequisites: Restricted to College of Business majors only.

[Leeds School of Business](#) [Business Administration](#)

BADM-1260 (2) First-Year Global Experience

In today's world of increased mobility, globally aware students have more choices for employment upon graduation and are immediately ready to contribute in global environments. They are aware of global issues and cultural differences, and their global mindset allows them to recognize good ideas from whenever they might come and new market/product opportunities wherever they might exist. This course is the first step toward the development of a global mindset. It provides a meaningful global experience to first-year business students through an in-depth perspective of a specific country or region outside the United States and a short academic trip to the region. Prerequisites: Restricted to College of Business majors only.

[Leeds School of Business](#) [Business Administration](#)

BADM-2010 (1) Excel Lab

Teaches beginner to intermediate level Excel skills, emphasizing efficient use of Excel to make sense of substantial data sets. The course is designed to increase students' proficiency with Excel through a series of hands-on workshops. The workshops have a business problem solving orientation and use real data from Leeds' corporate partners. The workshops emphasize the most important skills that employers value. Prerequisites: Restricted to College of Business majors only.

[Leeds School of Business](#) [Business Administration](#)

BADM-2050 (3) Honors/Special Topics

Variable topics in business, drawing from a variety of disciplines. Prereq., 3.50 minimum cumulative GPA.

Leeds School of Business Business Administration

BADM-2880 (3) Special Topics

Explores historical developments, contemporary issues, industry trends, and best practices pertinent to the business of sports. The course examines how sports enterprises are managed, and the impacts that such enterprises have on the economic and social fabric of communities. The course is designed to provide sufficient background for educated consumption of this literature and pursuit of further study if desired. Restricted to sophomores/juniors/seniors.

Leeds School of Business Business Administration

BADM-3100 (1) Professional Development

Designed to provide opportunities to understand and develop professional competencies for successful careers in business. Designed to increase knowledge of job search strategies and formulate a career management plan for transitioning to the workplace. Topics such as resumes, cover letters, personal branding, job search strategies, internships, career choices, networking and social media will be covered. A Self-Marketing Plan will be developed to help focus on long-term career goals. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Leeds School of Business (BUSN) majors only.

Leeds School of Business Business Administration

BADM-3880 (3) Special Topics

Introduces students to the many facets of the marketing of sport and marketing through sport. Theoretical and practical applications of marketing sport are examined. The course will provide students with an understanding of current marketing concepts, and best business practices, related to sports enterprises and a foundation for pursuit of further study and work in sports and event marketing. Restricted to juniors/seniors.

Leeds School of Business Business Administration

BADM-3930 (1-6) Internship

Student training and participation in government or industry environment under faculty supervision. Prereqs., BCOR 1000, 2000, 2010, 2050, GPA 2.50, junior standing and instructor consent.

Leeds School of Business Business Administration

BADM-4820 (1-6) Special Topics

Variable topics in business drawing from a variety of business disciplines. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Business Administration

BADM-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Business Administration. Restricted to juniors/seniors.

Leeds School of Business Business Administration

BADM-4830 (1-3) Special Topics

Various topics in business and society drawing from a variety of business disciplines. Restricted to junior/senior BU majors. Prerequisites: Restricted to College of Business majors only.

Leeds School of Business Business Administration

BADM-4910 (2) VITA-Volunteer Tax Assistance

Offers students the opportunity to gain professional work experience in an accounting position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Prereqs., BCOR 2000 and ACCT 4440 or ACCT 5440. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Business Administration

BADM-6820 (1-3) Topics in Business Administration

Offered irregularly to provide opportunity to investigate new topics in business administration.

Leeds School of Business Business Administration

BADM-6930 (3) Commercializing Sustainable Energy Technologies

Addresses the opportunities and problems of commercializing new renewable energy technologies. Focuses on energy markets, opportunity identification, life cycle analysis, policy economics, project financing, and economic analysis as they relate to bringing renewable energy technologies to market.



Courses

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BAKR

BAKR-1500 (3) Colorado: History, Ecology, and Environment

Studies the Colorado environment from multiple aspects of history and ecology. Presents historical events in their environmental context and examines lingering environmental consequences. Presents major habitats within Colorado and relates their historical and present uses. Lecture and field trips. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#) [Baker Residential Academic Program](#)

BAKR-1600 (3) Creating a Sustainable Future

Explores opportunities for moving toward a sustainable 21st century U.S. society. Evaluates socio-economic institutions, values and forces in late 20th century U.S. society that are unsustainable, given 21st century environmental, economic and social challenges. Contemplates societal progress from reflective perspectives and leading visionaries, including CU-generated documents. Explores actions you can adopt now that empower you to live a more sustainable lifestyle. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Baker Residential Academic Program](#)

BAKR-1800 (3) Exploring Opportunities in the Natural and Environmental Sciences

Engaging students to explore and discover exciting internships, careers, and research opportunities in fields associated with natural science and environmental studies. The class will include seminars, lectures, student presentations, and the exploration of places like the Denver Zoo, natural science museums (Denver and CU campus), Mountain Research Station, Campus Greenhouse, Butterfly Pavillion and Rocky Mountain National Park.

[College of Arts & Sciences](#) [Baker Residential Academic Program](#)



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Subject **Number**

BCOR

BCOR-1010 (3) Introduction to Business

Provides an overview of how business works through the application and integration of the fundamental business functions of accounting, finance, management, marketing, and systems. Weekly discussion of current events will focus on entrepreneurship, international business, business and society, and career topics. Restricted to freshmen business majors. Prerequisites: Restricted to Business majors with less than 53 units.

[Leeds School of Business](#) [Business Core](#)

BCOR-1020 (3) Business Statistics

Covers descriptive statistics, basic probability theory, statistical inference and hypothesis testing, correlation and simple linear regression analysis. Students learn decision making and solving business problems by using data. Uses statistical features of commonly used business spreadsheet software. Formerly BCOR 2010. Credit not granted for this course and MATH 2510. Prerequisites: Requires pre-requisite course of MATH 1071 or ECON 1078 or MATH 1001 or MATH 1011 or MATH 1150 or MATH 1300 or MATH 3130 or APPM 3310 or APPM 2360 or APPM 2380. Restricted to Business, ADVT or IAFS Majors only.

[Leeds School of Business](#) [Business Core](#)

BCOR-2000 (4) Accounting and Financial Analysis

Builds a basic understanding of how information regarding a firm's resources and obligations is conveyed to decision makers both outside and within the firm. Prerequisites: Requires pre-requisite course of BCOR 1020 or MATH 2510 or ECON 3818 or APPM 3570 or 4570 or CHEN 3010 or CVEN 3227 or IPHY 2800 or MATH 4510 or PSCI 2075 or PSYC 3101. Restricted to majors in Business, SPPR-PRO, IAFS, or students with WBE subplan.

[Leeds School of Business](#) [Business Core](#)

BCOR-2200 (3) Introductory Finance

Emphasizes the concepts and skills needed to make sound financial decisions. Topics include financial statement analysis, time value of money, interest rates, bond valuation and bond markets, stock valuation and stock markets, cost of capital and capital structure, capital budgeting, financial forecasting, and working capital management. Formerly BCOR 2100. Prerequisites: Requires pre-req course of BCOR1020 or MATH2510 or ECON3818 or APPM3570 or 4570 or CHEN3010 or CVEN3227 or IPHY2800 or MATH4510 or PSCI2075 or PSYC3101 and BCOR2000. Restricted to Bus., IAFS majors, students w/WBE subplan and 26-180 units completed.

Leeds School of Business Business Core

BCOR-2300 (3) Adding Value with Management

Focuses on how modern business firms compete in the global marketplace by adding value. Examines the value-chain of a firm and how firms use people, organizations, operations, and information systems to compete and win in world markets. Also covers contemporary issues such as total quality management, process reengineering, teams and team building, employee empowerment, and horizontal organizations. Prereq., BCOR 1010. Restricted to Business, SPPR-PRO majors, or students with a subplan of WBE only and 26-180 units completed. Formerly BCOR 2150. Prerequisites: Restricted to Business majors, SPPR-PRO majors, or students with a subplan of WBE only and 26-180 units completed.

Leeds School of Business Business Core

BCOR-2400 (3) Fundamentals of Marketing

Examines how activities in organizations provide value to the purchasers of its products and services. Includes gathering information about consumers and competitors through research and information systems, applying knowledge and technology to the design of products and services, communicating information to consumers and organizational units, and pricing and distributing products and services. Also includes issues in global marketing, ethics and diversity, relationship marketing, and integrating marketing with financial analyses. Prerequisites: Requires pre-req course of BCOR1020 or MATH2510 or ECON3818 or APPM3570 or 4570 or CHEN3010 or CVEN3227 or IPHY2800 or MATH4510 or PSCI2075 or PSYC3101. Restricted to Bus., SPPR-PRO, IAFS, or ADVT majors, students w/WBE subplan and 26-180 units.

Leeds School of Business Business Core

BCOR-2500 (3) Introduction to Operations and Information Management

Takes a systems perspective in exploring the use of information, processes, and models used by businesses to produce goods and services and to effectively manage accounting, finance, human resources, strategy, supply chains/inventory, and other activities in a business. Focuses on making better business decisions faster through better business intelligence by using the right information, at the right time, provided to the right managers. Prerequisites: Requires pre-requisite course of BCOR 1020 or MATH 2510 or ECON 3818 or APPM 3570 or 4570 or CHEN 3010 or CVEN 3227 or IPHY 2800 or MATH 4510 or PSCI 2075 or PSYC 3101. Restricted to Business majors with 13-180 units completed.

Leeds School of Business Business Core

BCOR-3000 (3) Business Law, Ethics, and Public Policy

Surveys major topics and case studies in business law, business ethics, and government policy. Business law topics include the American legal system, constitutional law, common law, contract principles, criminal and tort law, intellectual property, employment law,

and personal and real property law. Ethics topics include the philosophy of law, legal versus moral issues, and professional responsibility. Public policy topics include the roles of business and government, types of government intervention, and the nature and theory of governmental policy formulation. Prerequisites: Restricted to Business majors, Spanish (SPPR) majors, students with a subplan of WBE, and 52-180 units completed.

[Leeds School of Business](#) | [Business Core](#)

BCOR-3010 (3) Business Applications of Social Responsibility

Explores alternative views of the role of business in our global society through detailed case analyses, beginning with the free market view. This is a cross-functional area course that helps students to isolate and articulate their personal values that will shape business conduct. Emphasizes individual and organizational responsibility for business behavior in the broader social context. Prerequisites: Requires pre-requisite courses of BCOR 2000, 2200, 2300, 2400 & 2500. Restricted to Business majors with 60-180 units completed.

[Leeds School of Business](#) | [Business Core](#)



Courses

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BPOL

BPOL-6940 (1) Master's Candidate for Degree

[Leeds School of Business](#) [Business Policy and Strategy Management](#)

BPOL-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) [Business Policy and Strategy Management](#)

BPOL-7500 (3) Doctoral Seminar: Strategic Management 1

Provides an overview of the literature, including classic articles and books, in business strategy and policy (strategic management). Brings the student up to date on schools of thought, research issues, and practical applications in strategic management.

[Leeds School of Business](#) [Business Policy and Strategy Management](#)

BPOL-7530 (3) Doctoral Seminar: Strategic Management 2

Continuation of BPOL 7500. Prereq., BPOL 7500. Prerequisites: Restricted to Business Administration graduate students only.

[Leeds School of Business](#) [Business Policy and Strategy Management](#)

BPOL-7560 (3) Entrepreneurship, International Business and Technology Management

Provides doctoral students with an understanding of strategic management and entrepreneurship theory, as applied to international business and technology management literatures. Additionally, students are exposed to research methods in the strategy and entrepreneurship arenas. Prereqs., BPOL 7500 and 7530.

[Leeds School of Business](#) | [Business Policy and Strategy Management](#)

BPOL-8900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

[Leeds School of Business](#) | [Business Policy and Strategy Management](#)

BPOL-8990 (1-10) Doctoral Thesis

[Leeds School of Business](#) | [Business Policy and Strategy Management](#)



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BSLW

BSLW-4120 (3) Advanced Business Law

Continuation of BCORr 3000. Covers sales and lease transactions, negotiable instruments, creditor rights and bankruptcy, secured transactions, agency, business organizations, protection of property, and other advanced topics in legal and regulatory environments. BCOR 3000 and BSLW 4120/5120 together cover the business law topics tested on the CPA exam. Prereqs., BCOR 3000 and junior standing. Same as BSLW 5120. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Business Law](#)

BSLW-4820 (1-3) Topics in Business Law

Experimental course offered irregularly for purpose of presenting new subject matter in business law.

[Leeds School of Business](#) | [Business Law](#)

BSLW-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Business Law. Restricted to juniors/seniors.

[Leeds School of Business](#) | [Business Law](#)

BSLW-4900 (1-3) Independent Study

[Leeds School of Business](#) | [Business Law](#)

BSLW-5120 (3) Advanced Business Law

Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting-Taxation or Business Administration graduate students only. Same as BSLW 4120. Prerequisites: Restricted to Accounting, Finance/Accounting, Information Systems/Accounting, Systems/Accounting Concurrent Degree students or Accounting, Accounting/Taxation or Business Administration graduate students only.

[Leeds School of Business](#) [Business Law](#)

BSLW-6900 (1-6) Independent Study

Prerequisites: Restricted to Business graduate students only.

[Leeds School of Business](#) [Business Law](#)



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CAMW

CAMW-2001 (3) The American West

Students tour the cultural, social, and natural features of the American West, based on readings and presentations by guest faculty from across disciplines. Designed as the foundation course in the Western American Studies certificate program. Approved for GT-HI1. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomores).

[College of Arts & Sciences](#) [Center for the American West](#)

CAMW-3939 (1-3) Center of the American West Internship

Work for public and private organizations on projects that enhance the understanding of various Western American topics and issues (environmental, cultural, public policy, etc.), and which foster students' development as community leaders working for a sustainable West. May be repeated up to 6 total credit hours. Recommended prereq., CAMW 2001. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Center for the American West](#)

CAMW-4001 (3) Seminar on the American West

Interdisciplinary capstone seminar for the Western American Studies certificate program. Applies a selected natural science, social science, or humanities topic to the American West and addresses how westerners can make and sustain viable landscapes and communities. Recommended prereqs., CAMW 2001 and completion of Western American Studies certificate electives. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Center for the American West](#)

CAMW-4840 (1-4) Independent Study: The American West

Recommended prereq., CAMW 2001, junior or senior standing.

[College of Arts & Sciences](#) | [Center for the American West](#)

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CEES

CEES-2002 (3) Introduction to Central and East European Studies

Examines major themes in the history of Russia and East-Central Europe since the early modern era, introduces the literature and arts of the region, and presents current political, social, and economic issues. Same as HIST 2002. Approved for GT-SS3. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [Arts & Sciences Special Courses](#)



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CESR

CESR-4000 (1) Leadership Challenges I: Exercises in Moral Courage

Part one of a year-long course that focuses on values and leadership at the top level of organizations. The course is based on an interactive model that brings in six high-level executives to share their experiences and present critical business dilemmas, to which students prepare solutions for the executives to evaluate. Recommended prereq., BCOR 3010. By instructor recommendation only.

Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[Leeds School of Business](#) | [Curriculum Emphasis on Social Responsibility](#)

CESR-4001 (2) Leadership Challenges II: Exercises in Moral Courage

Continuation of a year-long course that focuses on values and leadership at the top level of organizations. The course is based on an interactive model that brings in six high-level executives to share their experiences and present critical business dilemmas, to which students prepare solutions for the executives to evaluate. Prereq., CESR 4000. Recommended prereq., BCOR 3010. By instructor recommendation only.

Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[Leeds School of Business](#) | [Curriculum Emphasis on Social Responsibility](#)

CESR-4005 (3) Business Solutions for the Developing World: Learning through Service

Students work in teams to provide business advice to social entrepreneurs, social ventures and Peace Corps volunteers who are working to solve global social and environmental problems. The primary objective of the class is to provide student with practical knowledge and experience in developing proactive, sustainable business strategies to meet the needs of the poor and to encourage students to think critically about how business can make an impact on global poverty. Prereq. or coreq., BCOR 3010. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

[Leeds School of Business](#) | [Curriculum Emphasis on Social Responsibility](#)

CESR-4010 (3) Microfinance

In the last two decades, microfinance initiatives have provided the primary worldwide impetus to promote economic independence for the poor (1.4 billion). Microfinance seminar links the financial markets with entrepreneurship to create a platform for building a microfinance institution that facilitates financial inclusion to the poor. The students in a semester long project build a hypothetical financial institution that provides access to credit, saving, insurance and more to a segmented poor population, somewhere in the world including the U.S. CESR 4010 and FNCE 4832 are the same course. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 90-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4130 (3) Sustainable Operations

Operational sustainability is not just an obligation, as set of strategies or a niche market to explore, but a critical shift in mindset of how businesses function. Sustainable operations examines business strategies in response to environmental and social challenges. The course takes a pragmatic business perspective on improving operations across the supply chain. Grounded in resource efficiency, life-cycle thinking and a dose of investigative skepticism, the course assists students to thoroughly understand the scope of costs, benefits and risks associated with driving businesses toward sustainable operations. Prereqs., BCOR 2500, 3010 and 60 hours completed. MGMT 4130 and CESR 4130 are the same course. Prerequisites: Restricted to students with 60-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4821 (3) Values & Power of the Consumer in Society

As a critical stakeholder group, consumers have substantial power to shape business behavior. Students will develop an understanding of the roles business can play in society, and the options and limitations that consumers have to influence business by exerting their purchasing power. This class is exclusively for non-business majors and will not count toward the business major or business minor. Prerequisites: Open to Non Business and Non Sponsored Students.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Social Responsibility. Prereq., BCOR 3010. Restricted to BUSN majors with minimum 52 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Curriculum Emphasis on Social Responsibility

CESR-4826 (3) Exp. Sem-Social Entrepreneurship: Designing a Better World

See the future through the eyes of entrepreneurs who are addressing global and social environmental problems such as poverty and deforestation. Can the social ventures they create to solve these problems survive over time and will they achieve the impact they seek? We will meet some of these social entrepreneurs and, in teams, write case studies to tell their stories. Restricted to non-Business majors with 60-180 units completed. CESR 4826 and ESBM 4826 are the same course. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

CESR-4827 (3) Integrated Reporting for Socially Responsible Strategies

Explores the growing global trend of companies to measure, disclose and report for socially responsible initiatives. Integrated reporting combines financial, environmental, social and governance information into a single report. Current practices in sustainability and integrated reporting in the US and across the world will be examined/learned through case studies, guest speakers, current literature and projects. Can be taken concurrently with BCOR 3010 and ACCT 3220. Same as ACCT 4827. Prerequisites: Requires pre-req course of BCOR 2000 and 2200. Restricted to students with 57-180 credits (Juniors or Seniors).



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CHEM

CHEM-1011 (3) Environmental Chemistry 1

Lect. Introduces basic principles of chemistry with applications to current environmental issues including toxic chemicals, air and water pollution, energy sources and their environmental impact, and climate change resulting from the greenhouse effect. No credit given to chemistry or biochemistry majors for CHEM 1011 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Approved for GT-SC2. Meets MAPS requirements for natural sciences: chemistry or physics. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-1021 (4) Introductory Chemistry

Lect. and lab. For students with no high school chemistry or a very weak chemistry background. Remedies a deficiency in natural science MAPS requirements and prepares students for CHEM 1113/1114. No credit given to chemistry or biochemistry majors for CHEM 1021 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Prereq., one year high school algebra or concurrent enrollment in MATH 1011. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-1031 (4) Environmental Chemistry 2

Lect. and lab. Applications of chemical principles to current environmental issues including acid rain, stratospheric ozone depletion, the Antarctic ozone hole, solar energy conversion and fuel cells, and the environmental consequences of nuclear war. Laboratory experience is included. No credit given to chemistry or biochemistry majors for 1031 if students already have credit in any college-level chemistry course numbered 1113/1114 (formerly 1111) or higher. Prereq., CHEM 1011 with a grade of C- or higher. Approved for arts and sciences core curriculum: natural science.

CHEM-1113 (4) General Chemistry 1

Lect., rec. Intended for first-semester students whose academic plans require advanced work in chemistry. Subjects: components of matter, stoichiometry, classes of reactions, gases, thermochemistry, atomic structure, electron configuration, chemical bonding, molecular shapes, covalent bonding, organic compounds, intermolecular forces, equilibrium. Prereqs., one year high school chemistry or CHEM 1021 (min grade C-); high school math through pre-calculus. Not recommended for students with grades below B- in CHEM 1021. Coreq., CHEM 1114. Not open to engineering students with exception of EPEN majors. Credit not granted for this course and CHEM 1111, 1251, 1351, or CHEM 1221/CHEM 1211. Approved for arts and sciences core curriculum: natural science. Prerequisites: AMEN, AREN, ASEN, CHEN, CSEN, CVEN, ECEN, EEEN, EVEN, MCEN, OPEN or CBEN majors are not allowed to take this class.

CHEM-1114 (1) Laboratory in General Chemistry 1

Lab. Intended for first-semester students whose academic plans require advanced work in chemistry. Instruction in experimental techniques which coordinate with lecture topics in CHEM 1113. Prereqs., one year high school chemistry or CHEM 1021 (min grade C-); high school math through pre-calculus. Not recommended for students with grades below B- in CHEM 1021. Coreq., CHEM 1113. Not open to engineering students with exception of EPEN majors. Credit not granted for this course and CHEM 1111, 1251, 1351, or CHEM 1221/CHEM 1211. Approved for arts and sciences core curriculum: natural science. Prerequisites: AMEN, AREN, ASEN, CHEN, CSEN, CVEN, ECEN, EEEN, EVEN, MCEN, OPEN or CBEN majors are not allowed to take this class.

CHEM-1133 (4) General Chemistry 2

Lect., rec. Intended for second-semester students whose academic plans require advanced work in chemistry. Subjects: acid-base equilibria, buffers and titrations, thermodynamics, redox reactions, electrochemistry, transition elements and their coordination compounds, solubility/solubility equilibria, crystal field theory, kinetics, nuclear chemistry. Prereq., CHEM 1113/1114 or equivalent (min grade C-). Coreq., CHEM 1134. Credit not granted for this course and CHEM 1131, 1271 or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite courses of CHEM 1111 or CHEM 1113/1114 or CHEM 1251 or CHEM 1351 or CHEN 1211/CHEM1221.

CHEM-1134 (1) Laboratory in General Chemistry 2

Lab. Intended for second-semester students whose academic plans require advanced work in chemistry. Instruction in experimental techniques which coordinate with lecture topics in CHEM 1133. Prereq., CHEM 1113/1114 or equivalent (min grade C-). Coreq., CHEM 1133. Credit not granted for this course and CHEM 1131, 1271, or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite courses of CHEM 1111 or CHEM 1113/1114 or CHEM 1251 or CHEM 1351 or CHEN 1211/CHEM1221.

CHEM-1221 (2) Engineering General Chemistry Lab

Coreq., CHEN 1211. One hour recitation in which concepts and problems are re-emphasized, homework is collected, and quizzes are given. Three hour lab in which students perform experiments designed to illustrate chemical concepts discussed in CHEN 1211. Also introduction to basic techniques in chemical measurements and synthesis. Prereq., one year high school chemistry or CHEM 1001 or 1021 (min grade C-); high school algebra. Coreq., CHEN 1211. Credit not granted for this course and CHEM 1111, 1113/1114, 1251 or 1351. Restricted to engineering students only. Prerequisites: Requires pre-requisite of course CHEM 1001 or 1021 (minimum grade C-). Requires co-requisite of course CHEN 1211. Restricted to Engineering students only.

College of Arts & Sciences Chemistry

CHEM-1251 (5) General Chemistry 1 for Chemistry and Biochemistry Majors

Lect. and lab. Intended for first-semester CHEM/BCHM majors. Subjects: components of matter, stoichiometry, classes of reactions, gases, thermochemistry, atomic structure, electron configuration, chemical bonding, molecular shapes, covalent bonding, organic compounds, intermolecular forces, equilibrium. Prereqs., one year high school chemistry or CHEM 1021 (minimum grade C-); high school math through pre-calculus. Not recommended for students with grade below B- in CHEM 1021. Restricted to CHEM/BCHM majors. Credit not granted for this course and CHEM 1113/1114, CHEM 1351, or CHEN 1211/CHEM 1221. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-1271 (5) General Chemistry 2 for Chemistry and Biochemistry Majors

Lect. and lab. Intended for second-semester CHEM/BCHM majors. Subjects: acid-base equilibria, buffers and titrations, thermodynamics, redox reactions, electrochemistry, transition elements and their coordination compounds, solubility/solubility equilibria, crystal field theory, kinetics, nuclear chemistry. Prereq., CHEM 1251 or equivalent (minimum grade C-). Restricted to CHEM/BCHM majors. Credit not granted for this course and CHEM 1131, 1133/1134 or 1371. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite course of CHEM 1251 (minimum grade C-). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-1351 (5) Honors General Chemistry 1

Lect. and lab. Principles of chemistry and their applications are covered in a comprehensive manner (honors level) in this low-enrollment freshman course. Lectures include topics not covered in CHEM 1113/1114-1133/1134. The laboratory experience is more extensive; therefore, the CHEM 1351-371 sequence is highly recommended for well-prepared students who intend to major in chemistry, chemical engineering, physics, molecular biology, or related areas. Prereqs., one year high school chemistry; four years of high school math and/or a high score on the SAT or ACT math exam and one year of high school physics. Credit not granted for this course and CHEM 1113/1114, 1221, 1251, and CHEN 1211. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Chemistry

CHEM-1371 (5) Honors General Chemistry 2

Lect. and lab. Continuation of CHEM 1351. Prereq., CHEM 1351 (min grade C-). Credit not granted for this course and CHEM 1131, 1133/1134 or 1271. Approved for arts and sciences core curriculum: natural science. Prerequisites: Requires pre-requisite course of CHEM 1351 (minimum grade C-).

College of Arts & Sciences Chemistry

CHEM-3151 (3) Air Chemistry and Pollution

Examines the composition of the atmosphere, and sources of gaseous and particulate pollutants: their chemistry, transport, and removal from the atmosphere. Applies general principles to acid rain, smog, and stratospheric ozone depletion. Prereqs., two semesters of chemistry. ATOC 3500 and CHEM 3151 are the same course. CHEM 3151 was formerly CHEM 3500. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Chemistry

CHEM-3251 (3) Sustainable Energy from a Chemistry Perspective

Explores qualitative and quantitative chemical aspects of energy systems (production, transmission, storage, utilization) including fossil, wind, solar, nuclear and biomass energy. Applies chemical principles including composition, structure, bonding, physical properties, thermodynamics, equilibrium and kinetics to energy systems and sustainability, especially environmental implications. Describes the importance of energy to the chemical industries and society as a whole. Prereqs., CHEM 1133/1134, CHEM 1271, CHEM 1371, or CHEN 1211/CHEM 1221 (min. grade C-).

College of Arts & Sciences Chemistry

CHEM-3311 (4) Organic Chemistry 1

Lect. and rec. Intended primarily for nonmajors. Topics include structure and reactions of alkanes, alkenes, alkynes, alkyl halides, and aromatic molecules; nomenclature of organic compounds; stereochemistry; reaction mechanisms and dynamics. Students may receive credit for only one of CHEM 3311 and 3351. Prereq., CHEM 1133/1134 (formerly 1131), 1271, or 1371 (min grade C-); for engineering students only: CHEN 1211/CHEM 1221 (min grade C-) or equivalent; coreq., CHEM 3321 or 3361. Prerequisites: Requires pre-requisite course of CHEM 1131 or CHEM 1133/1134 or CHEM 1271 or CHEM 1371 or CHEN 1211/CHEM 1221.

College of Arts & Sciences Chemistry

CHEM-3321 (1) Laboratory in Organic Chemistry 1

Lab. Instruction in experimental techniques of modern organic chemistry emphasizing chemical separations and reactions of alkanes, alkenes, and aromatic compounds. Stereochemical modeling and the identification of organic unknowns by spectroscopic and chemical methods are also introduced. Prereqs., CHEM 1133/1134 (formerly 1131), 1271, 1371, or CHEN 1211/CHEM 1221 (min grade C-) or equivalent. Coreq., CHEM 3311 or 3351. For biochemistry and nonchemistry majors. Credit not granted for this course and CHEM 3361. Prerequisites: Requires pre-requisite course of CHEM 1131 or CHEM 1133/1134 or CHEM 1271 or CHEM 1371 or CHEN 1211/CHEM 1221.

CHEM-3331 (4) Organic Chemistry 2

Lect. and rec. Intended primarily for nonmajors. Topics include structure and reactions of alkyl halides, alcohols, ethers, carboxylic acids, aldehydes, ketones, and amines; introduction to the chemistry of heterocycles, carbohydrates, and amino acids; nomenclature of organic compounds; synthesis; and reaction mechanisms. Prereq., CHEM 3311 or 3351 and CHEM 3321 or 3361 (all min grade C-). Coreq., CHEM 3341 or 3381. Credit not granted for this course and CHEM 3371. Prerequisites: Requires pre-requisite courses of CHEM 3311 or 3351, and CHEM 3321 or 3361 (minimum grade C- for all).

CHEM-3341 (1) Laboratory in Organic Chemistry 2

Lab. For biochemistry and nonchemistry majors. Instruction in experimental techniques of modern organic chemistry emphasizing reactions involving alcohols, ketones, carboxylic acids, and their derivatives. Multistep syntheses are also introduced. Prereq., CHEM 3321 or 3361 (min grade C-). Coreq., CHEM 3331 or 3371. Prerequisites: Requires pre-requisite courses of CHEM 3311 or 3351, and CHEM 3321 or 3361 (minimum grade C- for all).

CHEM-3351 (4) Organic Chemistry 1 for Chemistry and Biochemistry Majors

Lect. and rec. Intended primarily for majors. Topics include structure and reactions of alkanes, alkenes, alkynes, alkyl halides, and aromatic molecules; nomenclature of organic compounds; stereochemistry; reaction mechanisms, dynamics and organic spectroscopy. Students may receive credit for only one of CHEM 3311 and 3351. Prereq., CHEM 1133/1134 (formerly 1131), 1271, or 1371 (min grade C-); coreq., CHEM 3321 or 3361. Prerequisites: Restricted to CHEM and BCHM majors. Requires pre-requisite course of CHEM 1131 or CHEM 1133/1134 or CHEM 1271 or CHEM 1371 or CHEN 1211/CHEM 1221.

CHEM-3361 (2) Laboratory in Organic Chemistry 1 for Chemistry Majors

Lab. Required course for chemistry majors. Instruction in experimental techniques of modern organic chemistry emphasizing chemical separations and reactions of alkanes, alkenes, alcohols, ketones, and alkyl halides. Explores stereochemical modeling and the chemical identification of organic unknowns. Coreq., CHEM 3351 or 3311. Credit not granted for this course and CHEM 3321. Prerequisites: Requires pre-requisite course of CHEM 1131 or CHEM 1133/1134 or CHEM 1271 or CHEM 1371 or CHEN 1211/CHEM 1221 (min grade C-). Restricted to Chemistry and Biochemistry majors.

CHEM-3371 (4) Organic Chemistry 2 for Chemistry and Biochemistry

Majors

Lect. and rec. Topics include structure and reactions of carboxylic acids and derivatives, aromatic compounds, and amines; introduction to the chemistry of heterocycles, carbohydrates, and amino acids; nomenclature of organic compounds; reaction mechanisms. Prereqs., CHEM 3351 or 3311 and CHEM 3361 or 3321 (min grade C-). Prereq. or coreq., CHEM 3381 or 3341. Credit not granted for this course and CHEM 3331. Prerequisites: Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-3381 (2) Laboratory in Organic Chemistry 2 for Chemistry Majors

Lab. Required course for chemistry majors. Instruction in experimental techniques of modern chemistry, emphasizing reactions involving alcohols, ketones, carboxylic acids, aromatic compounds, and their derivatives. Multistep syntheses are also introduced. Prereqs., CHEM 3321 or 3361 and CHEM 3341 (min grade C-). Prereq. or coreq., CHEM 3331 or 3371. Prerequisites: Requires pre-requisite courses of CHEM 3311 or 3351, and CHEM 3321 or 3361 (minimum grade C- for all). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-4011 (3) Modern Inorganic Chemistry

Lect. Required course for chemistry majors. Introduces modern inorganic chemistry for undergraduates. Includes atomic structure, chemical periodicity, structure and bonding in molecules and crystals, reaction mechanisms, chemistry of selected main group and transition elements, and emphasis on catalyst, materials, bioinorganic, and organometallic systems. Prereq. or coreq., CHEM 4431, 4521, or 4531 (min grade C-).

College of Arts & Sciences Chemistry

CHEM-4021 (3) Inorganic Laboratory

One lect. and two 3-hour labs per week. Instruction in experimental techniques of modern inorganic chemistry. Includes syntheses and spectroscopic characterizations of transition metal and main group compounds, experience in manipulation of air sensitive compounds, and techniques involving unusual conditions of pressure or temperature. Prereq., CHEM 4011 (min grade C-). Prerequisites: Requires prerequisite course of CHEM 4011 (minimum grade C-). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-4171 (3) Instrumental Analysis

Lect. Theory and practice of instrumental methods of chemical analysis including atomic and molecular spectroscopy, gas and liquid chromatography, mass spectrometry, and electrochemistry. Prereqs., CHEM 3331 or 3371 (min grade C-).

College of Arts & Sciences Chemistry



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CHEM

CHEM-4181 (3) Instrumental Analysis Laboratory with Environmental Emphasis

One lect. and six hours of lab per week. Instruction and experience in using instrumental methods of analysis to address problems in chemistry, biochemistry, industrial chemistry, and environmental chemistry. Prereq., CHEM 4171 (min grade C-). Prerequisites: Requires pre-requisite course of CHEM 4171 (minimum grade C-). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-4251 (3) Materials Chemistry and Properties

Lec. Understanding of materials from chemistry perspective including metals, oxides, semiconductors and polymers. Basic description of chemical preparation of materials. Overview of fundamental properties of materials including structural, chemical, mechanical, thermal, electrical, and optical properties. Description of behavior of materials and various applications in modern technology. Discussion of materials characterization methods. Prereqs., CHEM 3331 or 3371, and CHEM 4431, 4521, or 4531 (min. grade C-) or instructor consent. CHEM 4251 and 5251 are the same course.

College of Arts & Sciences Chemistry

CHEM-4261 (3) Organic Materials: Structures and Functions

Overview of the preparation and functioning mechanism of novel organic materials that have recently been developed, including conductive polymers, 2-D macrocyclic structures, 3-D molecular cages, molecular machines/muscles/switches, fullerene derivatives and carbon nanotube composites. This course will emphasize the use of organic and physical chemistry as tools to develop novel materials and probe their structure-property relationship. Prereqs., CHEM 3331 or 3371, and CHEM 4431, 4521, or 4531 (min. grade C-) or instructor consent. CHEM 4261 and 5261 are the same course.

College of Arts & Sciences Chemistry

CHEM-4271 (3) Chemistry of Solar Energy

Chemical principles of conversion of solar energy into electricity and fuels in molecular and semiconductor-based systems. Overview of solid-state electronic structure of materials and interfaces, light-matter interactions, principles of harvesting photoexcited currents and useful chemical species. Description of processes utilized in established and emerging solar energy technologies. Prereqs., CHEM 3331 or 3371, and CHEM 4431, 4521, or 4531 (min. grade C-) or instructor consent. CHEM 4271 and 5271 are the same course.

College of Arts & Sciences Chemistry

CHEM-4411 (3) Physical Chemistry with Biochemistry Applications 1

Lect. Introduces thermodynamics and kinetics, emphasizing macromolecule and biochemical applications. Includes thermodynamics, chemical and physical equilibria, solution chemistry, transport properties, multiple site binding phenomena, and the rates of chemical and biochemical reactions. Alternative to CHEM 4511. Designed for biochemistry and biology majors. Prereqs., CHEM 3311 or 3351, PHYS 1110 or 2010, MATH 2400 or APPM 2350 (min grade C-), or instructor consent. Prereq. or coreq., PHYS 1120 or 2020. Credit not granted for this course and CHEM 4511. Same as CHEM 5411. Prerequisites: Requires pre-requisite courses CHEM 3311 or 3351, PHYS 1110 or 2010, MATH 2400 or APPM 2350 (all minimum grade C-). Requires pre-requisite or co-requisite of PHYS 1120 or 2020.

College of Arts & Sciences Chemistry

CHEM-4431 (3) Physical Chemistry with Biochemistry Applications 2

Lect. Principles of physical chemistry (second semester) for students in the biological sciences. Topics include quantum mechanics, chemical bonds, principles of spectroscopy, statistical mechanics, and transport processes with application to biological systems. Mathematical background (integral and differential calculus including partial differentiation) required. Prereq., grade of C- or higher in CHEM 4411 or 4511, and MATH 2400 or APPM 2350, and PHYS 1120 or 2020, or instructor consent. Credit not granted for this course and CHEM 4531. Same as CHEM 5431. Prerequisites: Requires pre-requisite courses of CHEM 4411 or 4511, MATH 2400 or APPM 2350 and PHYS 1120 or 2020 (minimum grade of C- for all).

College of Arts & Sciences Chemistry

CHEM-4511 (3) Physical Chemistry 1

Lect. Chemical thermodynamics and kinetics. Includes study of laws of thermodynamics, thermochemistry, entropy, free energy, chemical potential, chemical equilibria, and the rates and mechanisms of chemical reactions. Prereqs., CHEM 3311 or 3351, MATH 2400 or APPM 2350, and PHYS 1110 or 2020 (all min grade C-) or instructor consent. Prereq. or coreq., PHYS 1120. Credit not granted for this course and CHEM 4411/5411. Prerequisites: Requires pre-requisite of courses CHEM 3311 or 3351, MATH 2400 or APPM 2350, and PHYS 1110 or 2020 (all minimum grade C-). Requires pre-requisite or co-requisite course of PHYS 1120.

College of Arts & Sciences Chemistry

CHEM-4521 (3) Physical Chemistry for Engineers

Lec. Covers kinetic theory of gases; chemical equilibrium; electrochemistry; chemical kinetics; quantum mechanics and atomic structure; chemical bonding; spectroscopy; statistical mechanics; the solid state; the liquid state; and surface chemistry. Prereq., CHEM 1211 and CHEM 1221, CHEM 1113/1114 (formerly 1111) and 1133/1134 (formerly 1131), 1351 or 1371, MATH 2400 or APPM 2350, and PHYS 1110 (min grade C- required in all) or instructor consent. Prereq. or coreq., PHYS 1120. Restricted to Engineering students only. Prerequisites: Restricted to College of Engineering majors only.

College of Arts & Sciences Chemistry

CHEM-4531 (3) Physical Chemistry 2

Lect. Introduces the quantum theory of atoms, molecules and chemical bonding, and statistical thermodynamics. Includes principles of quantum mechanics and their application to atomic structure, molecular spectroscopy, symmetry properties, and the determination of molecular structure. Also includes principles of statistical mechanics and their applications to properties of gases, liquids, and solids. Prereqs., CHEM 4511 or 4411, and PHYS 1120 or 2020, and MATH 2400 or APPM 2350 (min grade C- required in all). Credit not granted for this course and CHEM 4431 or 5431. Prerequisites: Requires pre-requisite courses of CHEM 4511 or 4411, PHYS 1120 or 2020, and MATH 2400 or APPM 2350 (minimum grade C- for all)

College of Arts & Sciences Chemistry

CHEM-4581 (1) Physical Chemistry Lab 1

One 3-hour lab per week. Instruction in experimental techniques of modern physical chemistry. Experiments illustrate the fundamental principles of thermodynamics and chemical kinetics. Illustrates the material discussed in CHEM 4511. Prereq. or coreq., CHEM 4411 or 4511 (min grade C-) or instructor consent. Restricted to CHEM and BCHM majors. Credit not granted for this course and CHEM 4561. Prerequisites: Requires pre-requisite or co-requisite course of CHEM 4411 or 4511 (minimum grade C-). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-4591 (2) Physical Chemistry Lab 2

One lect. and one 3-hour laboratory every two weeks. a continuation of CHEM 4581, but may be taken concurrently with CHEM 4531 or CHEM 4431. Experiments illustrate the principles of quantum chemistry and spectroscopy discussed in CHEM 4531. Prereq., CHEM 4411 or 4511 and 4581 (min grade C- in all) or instructor consent. Prereq. or coreq., CHEM 4431 or 4531. Restricted to CHEM and BCHM majors. Credit not granted for this course and CHEM 4561. Prerequisites: Requires pre-requisite courses of CHEM 4411 or 4511 and CHEM 4581 (minimum grade C- for all). Restricted to Chemistry and Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-4611 (3) Survey of Biochemistry

Lec. One-semester survey of the main themes of modern biochemistry: biomolecular structure/function, metabolism, biosynthesis, DNA from genome to proteome, and cellular signaling. For biology and engineering majors and others wanting a survey of biochemistry. Prereq., one semester of organic chemistry (CHEM 3311, 3351, or equivalent; min grade C-). Prerequisites: Requires pre-requisite course of CHEM 3311 or 3351 (minimum grade C-).

College of Arts & Sciences Chemistry

CHEM-4621 (3) Genome Databases: Mining and Management

Lect. Develops essential skills for performing genomic analyses, with focus on developing practical research tools. Introduces human genome and microbiome projects, Python/Sql scripting, accessing and understanding genomic data, sequence alignment and search, evolutionary models, expression data, biological networks, and macromolecular structure. Prereqs., MCDB 3500, CSCI 3104, or CHEM 4711; coreq., CSCI 2270. Same as CHEM 5621. Credit not granted for this course and CSCI 4317 or MCDB 4621.

College of Arts & Sciences Chemistry

CHEM-4711 (3) General Biochemistry 1

Lect. Topics include structure, conformation, and properties of proteins, nucleic acids, carbohydrates, and membranes; enzyme mechanisms, kinetics, and regulation; intermediary metabolism; energetics and metabolic control; electron transport and oxidative phosphorylation. Prereq., CHEM 3331 or 3371 (mingrade C-). Same as CHEM 5711. Prerequisites: Requires pre-requisite course of CHEM 3331 or 3371 (minimum grade C-).

College of Arts & Sciences Chemistry

CHEM-4731 (3) General Biochemistry 2

Lect. Continuation of CHEM 4711. Metabolism of carbohydrates, lipids, amino acids, and nucleic acids; photosynthesis; biosynthesis and function of macromolecules including DNA, RNA, and proteins; biochemistry of subcellular systems; and special topics. Prereq., CHEM 4711 (min grade C-). Same as CHEM 5731. Prerequisites: Requires pre-requisite course of CHEM 4711 (minimum grade C-).

College of Arts & Sciences Chemistry

CHEM-4751 (3) Current Topics in Biochemical Research

Lect. Covers current topics in modern biochemical research through lectures, reading recent research articles, critical thinking, and class discussion. Topics include protein and nucleic acid structure and function, biomolecular interactions, enzyme function, and cellular signaling and regulation. Prereqs., CHEM 4711 and 4731 (min grade C-) or instructor consent. Same as CHEM 5751.

College of Arts & Sciences Chemistry

CHEM-4761 (4) Biochemistry Laboratory

Two 5-hour periods per week. The first hour of each period is lecture, the remainder is laboratory. Introduction to modern biochemical techniques. Topics include enzymology, spectrophotometry, electrophoresis affinity chromatography, radioisotopes, recombinant DNA, and molecular cloning. Prereq., CHEM 4711 (min grade of C-). Recommended prereq., CHEM 4731 or MCDB 3500. Restricted to CHEM or BIOCHEM majors. Prerequisites: Requires pre-requisite course of CHEM 4711 (minimum grade C-). Restricted to Chemistry & Biochemistry majors only.

College of Arts & Sciences Chemistry

CHEM-4791 (3) Bioorganic Chemistry in Biotechnology

Lect. Explores examples of antibodies, peptides, proteins, RNA, DNA, carbohydrates and lipids. The course uses the primary literature and requires student participation. Prereq., CHEM 3331 or 3371, and CHEM 4731 or 5731 (min. grade C-). Recommended prereq., undergraduate molecular biology. Same as CHEM 5791.

College of Arts & Sciences Chemistry

CHEM-4901 (1-6) Independent Study in Chemistry and Biochemistry

For undergraduate study. May be repeated up to 8 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Chemistry

CHEM-5011 (3) Advanced Inorganic Chemistry 1

Lect. Inorganic chemistry based on principles of bonding, structure, reaction mechanisms, and modern synthetic methods. Chemistry and general properties of representative and transition elements and their compounds. Prereqs., CHEM 4011 and 4531, or graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5061 (3) Advanced Inorganic Chemistry 2

Lectures in physical inorganic chemistry with an emphasis on topics for understanding modern solar energy conversion to electricity and fuels. Includes a description of bonding and properties of coordination compounds in terms of the ligand field and molecular orbital theories. The primary research literature will be used to motivate exploration of relevant themes including spectroscopy, electron transfer, energy transfer, bioenergetic conversion, and small-molecule activation. Prereqs., CHEM 4011 and graduate standing.

College of Arts & Sciences Chemistry

CHEM-5151 (3) Atmospheric Chemistry

Lect. Basic kinetics and photochemistry of atmospheric species. Stratospheric chemistry with emphasis on processes controlling ozone abundance. Tropospheric chemistry focusing on photochemical smog, acid deposition, oxidative capacity of the atmosphere, and global climate change. Prereq., graduate standing or instructor consent. Same as ATOC 5151. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5161 (3) Analytical Atmospheric Spectroscopy

Optical spectrochemical analysis, atmospheric transmittance, including atomic and molecular spectroscopy, line-by-line spectral databases such as HITRAN, absorption, emission, fluorescence, scattering processes of gases, surface enhancements, aerosols, optical spectroscopic instrument components, and techniques, and their applications to atmospheric, and environmental problems. Prereq., undergraduate physical chemistry or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-5171 (3) Electroanalytical Chemistry

Lect. Establishes a background for understanding electrochemical systems through a review of the relevant thermodynamic, kinetic, and electronic principles. Compares classical and modern electrochemical methods of analysis. Several special topics are discussed in depth. Prereq., undergraduate physical chemistry or instructor consent.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-5181 (3) Mass Spectrometry and Chromatography

Mass spectrometry, including instrumentation, ionization techniques, and interpretation of mass spectra. Theory and practice of analytical separation processes including ion mobility, capillary electrophoresis, and liquid gas chromatography. Introduction to applications in e.g. atmospheric and biological mass spectrometry. Introduction to computer simulation of instrumentation and physical processes. Prereq., undergraduate physical chemistry or instructor consent. Prerequisites: Restricted to Graduate Students only.

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CHEM

CHEM-5201 (3) Atmospheric Aerosol Discussions

Discusses recent literature concerning atmospheric aerosols and their role in atmospheric problems, including global ozone depletion, air quality, regional haze, acid rain, and global climate change. May be repeated up to 12 total credit hours. Recommended prereq., CHEM/ATOC 5151. Restricted to graduate students.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-5251 (3) Materials Chemistry and Properties

Lec. Understanding of materials from chemistry perspective including metals, oxides, semiconductors and polymers. Basic description of chemical preparation of materials. Overview of fundamental properties of materials including structural, chemical, mechanical, thermal, electrical, and optical properties. Description of behavior of materials and various applications in modern technology. Discussion of materials characterization methods. Prereqs., CHEM 3331 or 3371, and CHEM 4431, 4521, or 4531 (min. grade C-) or instructor consent. CHEM 4251 and 5251 are the same course.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-5261 (3) Organic Materials: Structures and Functions

Overview of the preparation and functioning mechanism of novel organic materials that have recently been developed, including conductive polymers, 2-D macrocyclic structures, 3-D molecular cages, molecular machines/muscles/switches, fullerene derivatives and carbon nanotube composites. This course will emphasize the use of organic and physical chemistry as tools to develop novel materials and probe their structure-property relationship. Prereqs., CHEM 3331 or 3371, and CHEM 4431, 4521, or 4531 (min. grade C-) or instructor consent. CHEM 4261 and 5261 are the same course.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-5271 (3) Chemistry of Solar Energy

Chemical principles of conversion of solar energy into electricity and fuels in molecular and semiconductor-based systems. Overview of solid-state electronic structure of materials and interfaces, light-matter interactions, principles of harvesting photoexcited currents and useful chemical species. Description of processes utilized in established and emerging solar energy technologies. Prereqs., CHEM 3331 or 3371, and CHEM 4431, 4521, or 4531 (min. grade C-) or instructor consent. CHEM 4271 and 5271 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5311 (3) Advanced Synthetic Organic Chemistry

Lect. Surveys synthetic transformations emphasizing important functional group transformations and carbon-carbon, bond-forming reactions. Required of all organic chemistry graduate students. Prereq., one year of organic chemistry. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5321 (3) Advanced Physical Organic Chemistry

Lect. Modern concepts of physical organic chemistry and their use in interpreting data in terms of mechanisms of organic reactions and reactivities of organic compounds. Required of all organic chemistry graduate students. Prereqs., one year of organic chemistry and one year of physical chemistry. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5331 (3) Advanced Spectroscopic Techniques in Organic Chemistry

Lect. Advanced spectroscopic techniques for structure and determination in organic chemistry. Emphasizes proton and carbon-13 NMR spectroscopy. Prereqs., one year of organic chemistry and one year of physical chemistry. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5341 (3) Chemical Biology and Drug Design

Develop knowledge base and skills in the interdisciplinary field of chemical biology, including aspects of chemistry and biology, and integrating both with respect to hierarchical levels of structure (atomic, molecular, cellular). Students will receive training that helps to develop their careers in biotech, pharmaceutical, and other research-oriented industries as well as in academia. Prereqs., introductory organic chemistry and general biochemistry.

College of Arts & Sciences Chemistry

CHEM-5411 (3) Physical Chemistry with Biochemistry Applications 1

Lect. Introduces thermodynamics and kinetics, emphasizing macromolecules and biochemical applications. Intended for biology graduate students. Not open to students in chemistry or other physical sciences. Prereqs., three semesters of calculus, one year of physics, and instructor consent or graduate standing. Same as CHEM 4411. Credit not granted for this course and CHEM 4411 or CHEM 4511.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5431 (3) Physical Chemistry with Biochemistry Applications 2

Lect. Principles of physical chemistry (second semester) for graduate students in biology. Not open to students of chemistry or the physical sciences. Prereqs., graduate standing and CHEM 5411, or instructor consent. Credit not granted for this course and CHEM 4531. Same as CHEM 4531. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5501 (3) Advanced Topics in Physical Chemistry

Covers various topics in physical chemistry focusing on their mathematical and physical background. Topics include the application of classical mechanics and electrodynamics in chemistry, the classical mechanics background for the description of atoms and molecules, the use of vector spaces in wave mechanics and quantum mechanics and the classical description of spectroscopy in terms of interaction of light and matter. Prereqs., undergrad physical chemistry, graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5531 (3) Statistical Mechanics

Lect. Fundamental concepts of quantum and classical statistical mechanics. Applications to properties of gases, liquids, solids, spin, and polymer systems. Reaction, fluctuation, nucleation, and relaxation phenomena. Prereq., undergraduate physical chemistry. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5541 (3) Chemical Dynamics

Lect. Discussion of mechanism and rate of chemical reactions from a fundamental point of view. Discusses nature of collision and develops concepts of cross section and rate constant. Theories of elementary bimolecular and decay processes are critically examined. Prereq., undergraduate physical chemistry. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5561 (3) Methods of Molecular Biophysics

Discusses techniques used to determine structure, function, and dynamics of macromolecules, including optical spectroscopy, magnetic resonance, diffraction, and electron microscopy. Approved for credit toward molecular biophysics certificate. Prereq., one year physical chemistry or quantum mechanics with graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5571 (3) Surface Science

Lect. Principles of surface science with emphasis on fundamental surface phenomena, surface techniques, and surface chemistry. Basic description of surfaces, adsorbate-surface interactions, surface kinetics, and methods of surface analysis. Surface science of interactions, surface kinetics, and methods of surface analysis. Surface science of heterogeneous catalysis, semiconductor processing, and environmental interfaces. Prereq., undergraduate physical chemistry and graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5581 (3) Introductory Quantum Chemistry

Lect. Basic principles and techniques of quantum mechanics with applications to questions of chemical interest. Quantum dynamics of atoms, molecules, and spin; electronic structure of atoms and molecules. Prereq., two semesters of physical chemistry and graduate standing, or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5591 (3) Advanced Molecular Spectroscopy

Lect. Rotational, vibrational, and electronic spectra of molecules, and their interpretation in terms of the quantum theory of molecular structure. Prereq., two semesters of physical chemistry and graduate standing, or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-5621 (3) Genome Databases: Mining and Management

Same as CHEM 4621. Credit not granted for this course and CSCI 5317 or MCDB 5621.

College of Arts & Sciences Chemistry

CHEM-5711 (3) General Biochemistry 1

Lect. Same lectures as CHEM 4711. Course work includes library studies and preparation of special reports. Not open to undergraduates. Prereq., one year of organic chemistry and graduate standing. Prerequisites: Restricted to Graduate Students only.

CHEM-5731 (3) General Biochemistry 2

Lect. Same lectures as CHEM 4731. Course work includes library studies and report preparations. Not open to undergraduates. Prereqs., CHEM 5711 and graduate standing, or instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-5751 (3) Current Topics in Biochemical Research

Prereq., instructor consent required. Same as CHEM 4751.

CHEM-5770 (3) Fundamentals of Biochemistry I

Analysis of topics in biochemistry including DNA structure and replication, RNA synthesis and processing, protein synthesis, enzyme function and mechanism, and protein structure and dynamics. Intended as a comprehensive treatment of areas central to modern biochemistry for entering graduate students. Lectures concurrent with CHEM 5771 covering the same topics except for the requirement of a written research proposal. Prereq., CHEM 4731 or equivalent, and graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-5771 (5) Advanced General Biochemistry 1

Lect. In-depth analysis of DNA structure and replication, RNA synthesis and processing, protein synthesis, enzyme function and mechanism, protein structure, protein dynamics, and physical chemistry of macromolecules. Intended as a comprehensive treatment of areas central to modern biochemistry for entering graduate students. Prereq., CHEM 4731 or equivalent, and graduate standing, or instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-5776 (1) Scientific Ethics and Responsible Conduct in Research

Lect. Advanced discussion of topics in scientific ethics, including requirements for responsible conduct of research, case histories of fraud, research misconduct, ethical misconduct, and development of professional values and ethical standards. Prereqs., CHEM 5771 or MCDB 5210 taken concurrently, and instructor consent. Same as MCDB 5776. Prerequisites: Restricted to Graduate Students only.

CHEM-5780 (3) Fundamentals of Biochemistry II

Analysis of topics in biochemistry including protein structure, methods of structure determination and prediction, protein folding, and protein dynamics. Intended as a comprehensive treatment of areas central to modern biochemistry for entering graduate students. Lectures concurrent with CHEM 5781, covering the same topics except for the requirement of a written research proposal. Prereq., CHEM 5770 or instructor consent. Prerequisites: Restricted to Graduate Students only.

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CHEM

CHEM-5781 (5) Advanced General Biochemistry 2

Lect. Detailed consideration of contemporary topics in biochemistry, including protein structure (primary, secondary, tertiary, and quaternary), methods of structure determination and prediction, protein folding (kinetics, thermodynamics, denaturation, and renaturation), and protein dynamics (internal motions and methods of analysis). Prereq., CHEM 5771 or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-5791 (3) Biorganic Chemistry in Biotechnology

Same as CHEM 4791.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-5801 (3) Advanced Signal Transduction and Cell Cycle Regulation

Lect. Advanced discussion of current research and literature in signal transduction, including ligands, receptors, and intracellular signaling pathways, as well as control on transcription, chromatin structure, Dna replication, mitosis, and cell cycle progression. Recommended prereqs., CHEM 5771 and 5781, MCDB 5210 or MCDB 5220, and graduate standing.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-5811 (3) Advanced Methods in Protein Sequencing and Analysis

Lect. Advanced discussion of current methods in protein sequencing, sequence analysis, and posttranslational modifications,

emphasizing techniques of mass spectrometry, use of protein databases, sequence alignment and motifs, structure prediction, and modeling of signaling pathways. Prereq., instructor consent. Recommended prereqs., CHEM 5771, CHEM 5781, MCDB 5210, and graduate standing.

College of Arts & Sciences Chemistry

CHEM-5821 (1) Special Topics in Signaling and Cell Regulation

Lect. Reviews and evaluates literature on subjects of current interest in signal transduction transcription, cell cycle progression, and cell regulation. Primarily for graduate level presentation of special topics by students, faculty, and research staff. May be repeated up to 5 total credit hours. Prereqs., graduate standing and instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6001 (1) Seminar: Inorganic Chemistry

Student, faculty, and guest presentations and discussions of current research in inorganic chemistry and related topics (transition element and main group element compound properties, inorganic compound in biological, industrial, and materials applications). Required of all inorganic chemistry graduate students. Credit deferred until presentation of satisfactory seminar. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Chemistry

CHEM-6021 (1-3) Special Topics in Inorganic Chemistry

Lect. Subjects of current interest in inorganic chemistry. Primarily used for graduate-level presentations of special topics by visiting and resident faculty. Variable class schedule. May be repeated up to 7 total credit hours. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Chemistry

CHEM-6031 (3) Special Topics in Nanoscience

Introduces the synthesis, physical properties, and applications of nanometer-scale materials and devices. Includes synthesis of metal and semiconductor nanoparticles and nanowires, optical and electronic properties of nanoscale systems, and applications in biotechnology and energy. Prereqs., CHEM 1111, 1131, and 4431 or 4521 or 4511. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6101 (1) Seminar: Analytical Chemistry

Student, faculty, and guest presentations and discussions of current research in analytical chemistry. Required of all analytical chemistry graduate students. Credit deferred until presentation of satisfactory seminar. Prereq., graduate standing or instructor consent.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6111 (1-3) Special Topics in Analytical Chemistry

Lect. Subjects of current interest in analytical chemistry. Used for graduate-level presentations of special topics by visiting and resident faculty. Variable class schedule. May be repeated up to 7 total credit hours. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Chemistry

CHEM-6301 (1-3) Seminar in Organic Chemistry

Discussions principally concerned with recent literature in organic chemistry. Required of all organic chemistry graduate students. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6311 (1-3) Special Topics in Synthetic Organic Chemistry

Lect. Selected topics in synthetic organic chemistry, encompassing both methods and/or total synthesis of complex molecules. Prereqs., CHEM 5311 and graduate standing, or instructor consent.

College of Arts & Sciences Chemistry

CHEM-6321 (1-3) Special Topics in Physical Organic Chemistry

Lect. Selected topics in physical organic chemistry, which may include photochemistry, carbene chemistry, free radical chemistry, molecular orbital methods, organic materials, or gas phase ion chemistry. Prereq., CHEM 5321 and graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6401 (1-3) Seminar: Physical Chemistry

Student, faculty, and guest presentations of current research in physical chemistry. Discussion of research topics related to the subject of weekly physical chemistry/chemical physics seminar and appropriate journal articles. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6411 (1-3) Advanced Topics in Physical Chemistry

Lect. May be repeated up to 7 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6601 (1) Biochemistry Seminar

Required of all biochemistry graduate students. Credit is deferred until presentation of satisfactory seminar. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6621 (1) Special Topics in RNA

Reviews and evaluates recent scientific literature in the field of RNA chemistry and biology, including topics in structure, catalysis, bioinformatic approaches, and control of gene expression. Primarily for graduate level presentation of special topics by students and research staff. May be repeated up to 5 total credit hours. Prereq., graduate standing or instructor consent. Same as MCDB 6621. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6711 (3-6) Advanced Topics in Biochemistry

Detailed study of current literature relative to one main topic is undertaken each semester. Topics covered on a rotating basis include enzyme kinetics and mechanisms; lipids and lipoproteins; chemistry and enzymology of nucleic acids; biochemistry of nucleic acids in eukaryotic cells; and protein chemistry. Presentations include faculty lectures and student reports. May be repeated up to 12 total credit hours. Prereqs., one year of biochemistry courses, graduate standing, and instructor consent.

College of Arts & Sciences Chemistry

CHEM-6731 (3-6) Advanced Topics in Biochemistry

Detailed study of current literature relative to one main topic is undertaken each semester. Topics covered on a rotating basis include enzyme kinetics and mechanisms; lipids and lipoproteins; chemistry and enzymology of nucleic acids; biochemistry of nucleic acids in eukaryotic cells; and protein chemistry. Presentations include faculty lectures and student reports. May be repeated up to 12 total credit hours. Prereqs., one year of biochemistry courses, graduate standing, and instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6801 (0) Departmental Research Seminar

Lectures by visiting scientists and occasionally by staff members and graduate students on topics of current research. Meets once a

week. Required for all graduate students in chemistry. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6901 (1-6) Special Topics in Chemistry

Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-6941 (1) Master's Candidate

College of Arts & Sciences Chemistry

CHEM-6951 (1-6) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7021 (2) Seminar: Structural Inorganic Chemistry

Current research in the area of structural inorganic chemistry. Concerns topics related to electronic and molecular structure of transition metal complexes. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7101 (2) Seminar: Chromatography and Trace Analysis

Student and faculty discussions and reports on research advances in chromatography, trace analysis, and environmental chemistry. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry



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CHEM

CHEM-7111 (2) Seminar: Electrochemistry

Student and faculty discussions and reports on research advances in electrochemistry. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7131 (1) Seminar in Atmospheric Aerosol Chemistry

Discusses advances in atmospheric aerosol chemistry, with emphasis on new methods for analysis and their application to laboratory and field studies. May be repeated up to 2 total credit hours. Prereq., graduate standing or instructor consent. Recommended prereqs., CHEM 5151, 5181. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7141 (1) Seminar: Spectroscopy at Dielectric Interfaces

Focuses on current research results and relevant literature in the areas of Raman spectroscopy, interfacial reactions/interactions, fluorescence spectroscopy, and photoacoustic spectroscopy. May be repeated up to 6 total credit hours. Prereq., instructor consent.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7161 (1) Seminar: Heterogeneous Atmospheric Chemistry

Topics in atmospheric chemistry emphasizing the structure and reactivity of atmospheric particulates. Presentations on current research and critical evaluations of recent literature. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7211 (1) Seminar: Topics in Synthetic Methodology and Natural Product Synthesis

Discussion of contemporary synthetic organic chemistry with a focus on new methodology and total synthesis of natural products. Prerequisites: Restricted to Graduate Students only.

CHEM-7221 (1) Seminar: Photochemistry and Free Radical Chemistry

Current research in areas of organic free radical chemistry, photochemistry, and related topics are presented and discussed. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7231 (1) Seminar: Reactive Intermediates

Application of contemporary ideas of chemical physics to organic molecules. Special attention to structures and bonding in organic ions and radicals. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7241 (1) Seminar: Synthetic Organic Chemistry

Series of seminars on directed total synthesis. Emphasizes modern synthetic methodology and applications to total synthesis of natural products. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7251 (1) Selected Topics in Chemical Genetics

Discusses the brief history of the emerging field of chemical genetics, and focuses on the recent development of concepts, techniques, applications, and its impact on both science and human health. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7271 (1) Seminar: Picosecond Dynamics of Reactions

Includes development and application of picosecond laser spectroscopy to organic and organometallic reactions. Emphasizes relationship

between current theoretical developments and experiments. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7281 (1) Seminar: Molecular Self-Assembly

Discusses current topics and recent advances in molecular self-assembly, with emphasis on new liquid crystal designs and applications. May be repeated up to 2 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7291 (1) Seminar: Physical Organic Chemistry

Modern experimental techniques and theoretical models in physical organic chemistry are discussed in relation to the development of new materials, such as molecular size tinkertoys to the development of novel photochemical systems and their spectroscopies. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7301 (1) Seminar: Synthetic and Mechanistic Chemistry

Discusses particularly the synthesis of complex organic molecules and the mechanism of reagents used in organic synthesis. Includes a study of transition metal mediated organic reactions. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7311 (1) Selected Topics in Organic Materials

Current research in the area of organic/materials chemistry. Concerns topics related to organic materials synthesis, carbon nanotube functionalization, artificial photosynthesis, gas storage and catalysis. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7401 (1) Seminar in Photochemical Reaction Control

Discusses progress towards control of molecular reactivity using light, including synthetic methods for creating control subjects. Emphasizes new methods to achieve coherent control. May be repeated up to 2 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7421 (2) Seminar: Negative Ion Chemistry

Chemistry of negative ions; experimental methods and designs; laser spectroscopy of ions; theoretical methods; reactive dynamics of ions in the gas phase. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7431 (1) Seminar: Topics in Theoretical Chemical Physics

Seminars presented on a variety of topics in theoretical chemical physics. Molecular collisions and unimolecular dynamics predominantly featured. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7441 (2) Research Seminar: Theoretical Chemistry

Studies theoretical description of molecular dynamics as related to rate processes. Focuses on chemical reactions in liquids, absorption-desorption on surfaces, nucleation reactions, and energy flow in molecules. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7461 (1) Seminar: Gas Phase Ion Chemistry

Studies gas phase ion chemistry relevant to thermochemical measurements and atmospheric, interstellar, and biomedical applications. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7471 (1) Seminar in Ultrafast Spectroscopy of Proteins

Discusses advances and developments in biomolecular dynamics, and considers the connection of protein dynamics with function. Emphasizes experimental studies via ultrafast laser spectroscopy. May be repeated up to 2 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7481 (2) Seminar: Molecular Spectroscopy and Photochemistry

Discussion and presentation of current research in spectroscopy and photochemistry of organic as well as organometallic systems. Reviews state of the art techniques available for the theoretical and experimental characterization of excited states. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7491 (1) Seminar: Molecular Vibrational Dynamics

Topics pertaining to vibrational dynamics of small molecules are discussed, with particular emphasis upon IR laser spectroscopy, van der Waals' clusters, vibrationally induced dipole moments, and predissociation. Discussion of current research and recently published literature. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7501 (1) Seminar: Theoretical Molecular Dynamics

Variety of topics in theoretical chemical physics, emphasizing dynamics of molecules in dissipative environments or in radiation fields. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7511 (1) Seminar: Reaction Dynamics in Condensed Phases

Studies elementary steps in chemical reactions and their observation by ultrafast spectroscopy. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7521 (1) Seminar: Atmospheric Kinetics and Photochemistry

Discusses laboratory studies of degradation mechanisms. Applies these studies to atmospheric phenomena such as global warming and stratospheric ozone loss. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.



Courses

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College/School

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Subject **Number**

CHEM

CHEM-7531 (1) Seminar: Surface Chemistry and Thin Film Growth

Topics in surface chemistry and thin film growth with focus on atomic layer deposition (ALD) and molecular layer deposition (MLD). Properties of thin films grown using ALD and MLD. Applications of thin films in areas including flexible displays, energy storage and catalysis. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7551 (1) Selected Topics in Ion Spectroscopy

Treats current topics in the spectroscopy of ions. Seminar lectures are given by graduate students on their research and on literature topics, and the results of both in-house and external research groups are studied. Additionally, ideas for interesting directions of research and new experiments are proposed and discussed. May be repeated up to 2 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7601 (2) Seminar: Nucleic Acid Chemistry

Topics in various aspects of current research; emphasizes student readings and presentations. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7611 (1) Seminar: Structures and Dynamics of Biopolymers in Solution

Discussion of experimental and theoretical approaches for probing structures and dynamics of proteins, peptides, and nucleic acids; and

computations in molecular dynamics simulation, modeling, and geometry. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7621 (1) Seminar: Biochemistry and Molecular Biology of Signal Transduction

Discusses and reviews the current literature and experimental results in signal transduction, cell cycle and tumor suppressor gene regulation. Emphasizes the understandings of molecular and biochemical mechanisms of the origin of human tumor cells. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7651 (2) Seminar: Environmental Biochemistry

Topics in various aspects of current biochemical and environmental research. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7661 (1) Structure/Function of Human Mediator Transcription Complexes

Study of the mechanisms of eukaryotic gene expression with an emphasis on the structure and function of human mediator transcription complexes. Restricted to graduate students or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7671 (1) Seminar: Topics in Designing Probes for Signaling Reactions

Discussion of advances and developments in biomolecular dynamics, with emphasis on experimental studies via ultrafast laser spectroscopy. The connection of protein dynamics with function will also be considered. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Chemistry

CHEM-7691 (1) Seminar: Protein Dynamics and the Mechanism of Sensory Proteins

Discusses recent results and current literature in the areas of the mechanism of sensory proteins, internal motions of proteins, and protein folding. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7701 (1) Seminar: Enzyme Mechanisms and Kinetics

Studies experimental approaches to understand the mechanisms of enzymic catalysis. Techniques include steady-state and pre-steady-state kinetics, isotope trapping and partitioning, inhibition by substrate analogues, and covalent modification of proteins. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7711 (1) RNA Mediated Inorganic and Organic Reactions

Discussion of advances and developments in biomolecular dynamics, with emphasis on experimental studies via ultrafast laser spectroscopy. The connection of protein dynamics with function will also be considered. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

CHEM-7741 (1) Seminar: Signal Transduction and Protein Phosphorylation

Devoted to experimental methods for understanding mechanisms of signal transduction in mammalian cells through pathways involving regulation of protein phosphorylation. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7751 (1) Seminar: Protein Structure and Folding

Studies structure and folding of proteins and protein complexes using biophysical methods, including nuclear magnetic resonance (NMR), circular dichroism, and fluorescence spectroscopies. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7761 (1) Seminar: Eukaryotic Transcriptional Regulation

Studies the regulation of transcription by RNA Polymerase II from human promoters. May be repeated up to 6 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

CHEM-7781 (1) Seminar: Topics in Structural Biology

Discussion of advances and developments in structural biology with emphasis on new methods for protein expression, purification and crystallization; and structure solution implementation. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-7791 (1) Seminar: Topics in Ribonucleoprotein Assemblies

Studies aspects of the biochemical and structural analysis of ribonucleic acid (RNA) and its interactions with proteins and assemblies into functional ribonucleoprotein (RNP) enzymes. Techniques focus on x-ray crystallography, spectroscopic methods, and biochemical probing. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

CHEM-8991 (1-10) Doctoral Dissertation

All doctoral students must register for 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Chemistry](#)

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Courses

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Subject **Number**

CHEN

CHEN-1000 (3) Creative Technology

Lect. Introduces undergraduate arts and sciences students to the most recent concepts in technology and how these concepts impact all aspects of life, such as health, the health of the planet, and social structures. Engineering students should consult an advisor before registering for this course. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to non-Engineering majors only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-1211 (3) General Chemistry for Engineers

Lect. a one-semester course designed to meet the general chemistry requirement for engineering students. Topics include stoichiometry; thermodynamics; gases, liquids, and solids; equilibrium; acids and bases; bonding concepts; kinetics; reactions; and materials science. Examples and problems illustrate the application of chemistry to engineering subdisciplines. Restricted to students with one year of high school chemistry or CHEM 1001 or 1021 (min. grade C-); and high school algebra. Not recommended for students with grades below B- in CHEM 1001 or 1021. Credit not granted for this course and CHEM 1111, 1113/1114, 1251, or 1351. Prerequisites: Requires co-requisite course of CHEM 1221. Restricted to College of Engineering Majors only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-1300 (1) Introduction to Chemical Engineering

Meets for one lecture per week. Introduces chemical engineering emphasizing history of the profession, curriculum, chemical industry, and industrial chemistry. Includes industry visits, oral presentations, faculty and professional meetings, and development of a goals statement. Prerequisites: Restricted to Chemical (CHEN) Engineering or Chemical and Biological (CBEN) Engineering majors only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-2120 (3) Chemical Engineering Material and Energy Balances

Provides a basic understanding of chemical engineering calculations involving material and energy balances around simple chemical processes. Prerequisites: Requires pre-requisite courses of CHEN 1211 and GEEN 1300 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-2810 (3) Biology for Engineers

Develops a basic understanding of the science of biology, including an introduction to the disciplines of biochemistry, cell organization, metabolism, genetics, genomics, molecular biology, recombinant DNA technology and evolution. Provides a basic introduction to several key techniques used in biological engineering laboratories. Uses examples of complex and creative structures engineered by natural processes.

College of Engineering & Applied Science | Chemical Engineering

CHEN-2840 (1-4) Independent Study

Available to sophomores with approval of Department of Chemical Engineering. Subject arranged to fit needs of student.

College of Engineering & Applied Science | Chemical Engineering

CHEN-3010 (3) Applied Data Analysis

Teaches students to analyze and interpret data. Topics include engineering measurements, graphical presentation and numerical treatment of data, statistical inference, and regression analysis. Prerequisites: Requires pre-requisite course of GEEN 1300.

College of Engineering & Applied Science | Chemical Engineering

CHEN-3130 (2) Chemical Engineering Laboratory 1

One four-hour lab session per week. Investigates chemical engineering fluid flow, heat transfer, and thermodynamics. Emphasizes communication by written reports and oral presentations as well as laboratory safety. Prereq., CHEN 3010, 3200, 3320 and either CHEN 3210 or MCEN 3022 (all min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 3010 and CHEN 3200 (or MCEN 3021 or GEEN 3853) and CHEN 3320 and CHEN 3210 (or MCEN 3022).

College of Engineering & Applied Science | Chemical Engineering

CHEN-3200 (3) Chemical Engineering Fluid Mechanics

Introduces fluid mechanics and momentum transfer, emphasizing the application of these principles to chemical engineering systems. Prereqs., APPM 2350 and either CHEN 2120 (min. grade C) or MCEN 2023 (min. grade C). Coreq., APPM 2360. Same as GEEN 3853.

College of Engineering & Applied Science | Chemical Engineering

CHEN-3210 (3) Chemical Engineering Heat Transfer

Examines conservation and transfer of thermal energy. Focuses on conduction and convection of heat in the context of chemical processes, with a special focus on heat exchangers. Also studies thermal radiation. Prerequisites: Requires pre-requisite courses of either CHEN 3200 or MCEN 3021 (all min grade C-).

CHEN-3220 (3) Chemical Engineering Separations and Mass Transfer

Studies separation methods including distillation, absorption, and extraction, and graphical and computer-based solutions to separation problems. Also studies mass transfer rate processes, including diffusion, microscopic material balances, and correlations for mass transfer coefficients. Applies mass transfer rate theory to packed and tray columns. Prerequisites: Requires pre-requisite courses of CHEN 3200 (or MCEN 3021 or GEEN 3853) and CHEN 3320.

CHEN-3320 (3) Chemical Engineering Thermodynamics

Applies thermodynamic principles to nonideal systems, phase equilibrium, chemical equilibrium, power generation, refrigeration, and chemical processes. Prereqs., CHEN 2120 (min. grade C) and either CHEM 4511 or 4521 (min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 2120 and either CHEM 4511 or 4521 (all min grade C-).

CHEN-3840 (1-4) Independent Study

Available to juniors with approval of the Department of Chemical Engineering. Subject arranged to fit needs of the student.

CHEN-3930 (6) Chemical Engineering Cooperative Education

Students enrolled in this course participate in a previously arranged, department-sponsored cooperative education program. Prereqs., CHEN 2120 (min. grade C) and GPA higher than 2.85. GPA higher than 3.00 strongly recommended.

CHEN-4010 (2) Chemical Engineering Senior Thesis 1

Provides an opportunity for advanced students to conduct exploratory research in chemical engineering.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4020 (2) Chemical Engineering Senior Thesis 2

Continuation of CHEN 4010. CHEN 4010 and 4020 can substitute for CHEN 4130.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4090 (1) Senior Seminar

Provides chemical engineering career and professional information, facilitates contact with faculty and industry representatives, and improves communication and leadership skills. Consists of a series of seminars and field trips and requires a research project involving a written and oral report. Prerequisites: Restricted to Chemical (CHEN) Engineering or Chemical and Biological (CBEN) Engineering majors only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4130 (2) Chemical Engineering Laboratory 2

Involves planning and execution of chemical engineering experiments on mass transfer operations, separations, and chemical reactors. Interprets experimental data with theoretical principles and statistical analysis. Emphasizes communication with written memos, full reports, and oral presentations. Prerequisites: Requires pre-requisite courses of CHEN 3130, 3220, 3320, 4330 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4330 (3) Chemical Engineering Reaction Kinetics

Introduces chemical kinetics and chemical reactor design. Involves mass and energy balances for steady-state and transient reactor systems. Also covers residence time distribution, mass transfer, catalytic reactions, and multiple steady states in reactors. Prerequisites: Requires pre-requisite courses of CHEN 3320 and APPM 2360.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4440 (3) Chemical Engineering Materials

Introduces materials engineering, including properties of polymers, metals, ceramics, and semiconductors, especially as related to chemical engineering processes. Prereq., CHEN 3320 and CHEM 3311 (min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4450 (3) Polymer Chemistry

Introduces polymer science with a focus on polymer chemistry and polymerization reactions. Focuses on polymerization reaction engineering and how polymer properties depend on structure. Same as CHEN 5450. Prerequisites: Requires pre-requisite courses of CHEN 4830 or CHEM 3311 and CHEN 4330 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4460 (3) Polymer Engineering

Introductory polymer engineering course reviewing basic terminology and definitions; the properties and synthetic routes of important industrial polymers; and processing of polymers and their applications. Prereq., CHEM 3311 and CHEN 3320 (min. grade C-). Same as CHEN 5460. Prerequisites: Requires pre-requisite courses of CHEM 3311 and CHEN 3320.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4520 (3) Chemical Process Synthesis

Studies applied chemical process design including equipment specification and economic evaluation. Prerequisites: Requires pre-requisite courses of CHEN 3210, 3220, and 4330 or 4830 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4530 (2) Chemical Engineering Design Project

Provides a team-based capstone design experience for chemical engineering students. Projects are sponsored by industry and student design teams collaborate with industrial consultants. Projects consider chemical process and product design with emphasis on economic analysis. Deliverables include an oral mid-project design review, a final oral presentation and final written design report. Prereq., CHEN 4520 (min. grade C-). Prerequisites: Requires pre-requisite course of CHEN 4520.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4570 (4) Instrumentation and Process Control

Examines principles of control theory and their application to chemical processes. Focuses on single-loop feedback and feedforward control. Laboratory sessions cover measurement fundamentals, signal transmission, dynamic testing, control system synthesis, and implementation and adjustment. Prereqs., CHEN 3220, 4330 or 4830, and APPM 2360 (all min. grade C-). Prerequisites: Requires pre-requisite courses of CHEN 3220 and CHEN 4330 (or CHEN 4830) and APPM 2360 (all min grade C-).

College of Engineering & Applied Science | Chemical Engineering





Courses

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CHEN

CHEN-4630 (1) Intellectual Property Law and Engineering

Learn the fundamentals of the various types of intellectual property, obtain the ability to search the USPTO database for patents, learn the difference between provisional patents, utility patents and foreign patents, and learn the timing requirements related to the filing of patents and public disclosure, use, and/or sale of an invention. Restricted to seniors. Same as CHEN 5630.

[College of Engineering & Applied Science](#)
[Chemical Engineering](#)

CHEN-4650 (3) Particle Technology

Aims to identify the important physical mechanisms occurring in processes involving particles, formulate and solve mathematical descriptions of such processes, and analyze experimental and theoretical results in both a qualitative and quantitative manner. Teaches students to apply this knowledge to the design of particulate systems. Conveys the breadth and depth of natural and industrial applications involving particulates. Prereq., APPM 2360 and CHEN 3200 or MCEN 3021 (all min. grade C-). Same as CHEN 5650.

[College of Engineering & Applied Science](#)
[Chemical Engineering](#)

CHEN-4670 (3) Environmental Separations

Lect. Covers traditional, as well as new, chemical separations processes that have environmental applications. Includes chemically benign processing (pollution prevention) as well as approaches to address existing pollution problems. Same as CHEN 5670. Prerequisites: Requires pre-requisite course of CHEN 3220. Restricted to students with 57-180 credits (Junior or Senior) or graduate students only.

[College of Engineering & Applied Science](#)
[Chemical Engineering](#)

CHEN-4800 (3) Bioprocess Engineering

Reviews the recent developments in the fields of microbiology, molecular genetics, and genetic engineering that are of commercial value and benefit to mankind. Covers engineering implementation of such biological processes. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) or graduate students in engineering. Same as CHEN 5800.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4801 (3) Pharmaceutical Biotechnology

Focuses on the engineering needed to bring therapeutic products derived from living organisms (e.g., proteins, peptides, DNA, RNA) from the production plant to the patient. Covers the challenges of keeping these products "active" as they are stored, shipped, and administered to patients. Prereq., CHEN 3320 (min. grade C-). Coreq., CHEN 4330 or 4830. Prerequisites: Requires pre-requisite courses of CHEN 3320 and pre-requisite or co-requisite courses of CHEN 4830 or CHEN 4330.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4803 (3) Metabolic Engineering

Introduces basic concepts in metabolic engineering and explores modern approaches in metabolic and strain engineering. Application areas that will be discussed will include the use of metabolic engineering approaches in biofuels and biorefining as well as biopharmaceutical production. CHEN 4803 and 5803 are the same course. Prerequisites: Requires pre-requisite course of CHEM 4711 or CHEM 4611.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4805 (3) Biomaterials

Provides an overview of biomaterials. Covers major classes of materials used in medical applications, properties, degradation mechanisms, and characterization methods, foreign body response, methods to control physiological response to biomaterial surfaces, biocompatibility, biomaterials used in soft and hard tissue replacements, drug delivery devices and tissue engineering, and design criteria for developing a material for a given biological application. Prereq., CHEM 3311 (min. grade C-). Same as CHEN 5805. Prerequisites: Requires a pre-requisite course of CHEN 2810 or MCDB 1150 or EBIO 1220 and 1230.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4810 (2) Biological Engineering Laboratory

Involves planning and execution of chemical engineering experiments on mass transfer operations, bioseparations, and biological reactors. Interprets experimental data with theoretical principles and statistical analysis. Emphasizes communication with written memos, full reports and oral presentations. Prerequisites: Requires pre-requisite courses of CHEN 2810 and CHEN 4830 and requires a co-requisite course of CHEN 4820.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4820 (3) Biochemical Separations

Lect. and lab. Presents purification methods, mass transfer coefficients, problems specific to biologicals, and scale-up of processes. Also covers chromatography, phase extraction, supercritical fluids, sedimentation, precipitation, electrophoresis, dialysis, affinity techniques, cell separation, application of separations to bioreactors, and comparison of batch and continuous processes. Prereq., senior standing or above in engineering or science. Same as CHEN 5820. Prerequisites: Requires pre-requisite course of CHEN 3220.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4830 (3) Chemical Engineering Biokinetics

Introduces chemical kinetics, chemical reactor design, and biological kinetics. Involves mass and energy balances for steady-state and transient reactor systems. Also covers residence time distribution, mass transfer, catalytic reactions, multiple steady states in reactors, enzyme kinetics, metabolic networks, and cell growth kinetics. Prerequisites: Requires pre-requisite course of CHEN 3320.

College of Engineering & Applied Science | Chemical Engineering

CHEN-4836 (3) Nanomaterials

Presents fundamental chemical and physical concepts that give rise to the unique optical, electronic and magnetic properties of nanoscale materials. Introduces important synthetic routes for producing nanomaterials, and interparticle forces governing colloidal behavior and self-assembly. Discusses current and potential applications in catalysis, biomedicine, renewable energy, and other fields. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) or graduate students only. CHEN 4836 and 5836 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4838 (1-3) Special Topics in Chemical Engineering

Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Engineering & Applied Science | Chemical Engineering

CHEN-4840 (1-4) Independent Study

Available to seniors with approval of chemical engineering department. Subject arranged to fit needs of student.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5090 (1) Seminar in Chemical Engineering

Required of all chemical engineering graduate students. Includes reports on research activities and on special current topics. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5127 (3) Applied Statistics for the Manufacturing and Process Industries

Discusses the concepts and techniques of applied statistics essential to quality control and product/process improvement. Includes computer control (SQC/SPC), sampling methods and time series analysis, and methods of experimental design. Prereq., MCEN 4120. Same as CVEN 5127 and MCEN 5126.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5128 (3) Applied Statistics In Research and Development

Students learn current and emerging statistical methods that are appropriate to experimentation in research and development activities. Statistical design of experiments and model fitting is emphasized. Prereq., one introductory probability/statistics course. Same as MCEN 5146.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5210 (4) Transport Phenomena

Considers continuum mechanics, emphasizing fundamental relationships for fluid mechanics and heat transfer and their applications to engineering problems. Prereq., senior or graduate standing and undergraduate courses in fluid mechanics, heat transfer, and differential equations.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5220 (3) Mass Transport

Examines fundamentals of mass transport with particular attention to microscopic balances in complex systems, such as those involving multiple components, chemical reaction, simultaneous heat and mass transport, and/or high mass flux. Prereq., CHEN 5210, undergraduate mass transfer, and familiarity with vector and tensor calculus.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5333 (3) Research Methods and Ethics

Prepares graduate students to carry out independent research. Research ethics, laboratory skills, experimental methods, critical thinking, presentations, proposal preparation and career planning are discussed. Independent research project carried out under direction of chemical engineering faculty. Prereq., graduate standing.

CHEN-5343 (1) Research Methods and Ethics Seminar

Prepares graduate students to carry out independent research. Focuses on topics such as safety, ethics, communication skills, data analysis, intellectual property considerations, and time management. Prerequisites: Restricted to Graduate Students only.

CHEN-5360 (3) Catalysis and Kinetics

Studies principles of chemical kinetics and catalytic reactions, emphasizing heterogeneous catalysis. Coreq., CHEN 4330, or prereq., CHEM 4551 and instructor consent, or graduate standing in CHEM or CHEN.

CHEN-5370 (3) Intermediate Chemical Engineering Thermodynamics

Reviews fundamentals of thermodynamics, application to pure fluids and mixtures, and physical equilibrium and changes of state. Examines the equation of state and computation of fluid properties for pure fluids, mixtures, and solutions. Also looks at relations between thermodynamics and statistical mechanics. Prereq., undergraduate thermodynamics (CHEN 3320 or equivalent). Prerequisites: Restricted to Graduate Students only.

CHEN-5390 (3) Chemical Reactor Engineering

Studies ideal and nonideal chemical reactors, including unsteady state behavior, mixing effects, reactor stability, residence time distribution, and diffusion effects. Prereq., undergraduate course in chemical reactor design/kinetics.

CHEN-5420 (3) Physical Chemistry and Fluid Mechanics of Interfaces

Covers thermodynamics of interfaces and surface tension measurement; adsorption at liquid-gas, liquid-liquid, and solid-gas interfaces; monolayers; conservation equations for a fluid interface; rheology of interfaces; surface tension driven flows; contact angle and wettability; and double layer phenomena. Prereq., CHEN 3200 or equivalent.

CHEN-5450 (3) Polymer Chemistry

Same as CHEN 4450.

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Courses

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CHEN

CHEN-5460 (3) Polymer Engineering

Same as CHEN 4460.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-5630 (1) Intellectual Property Law and Engineering

Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-5650 (3) Particle Technology

Extra work required for graduate course. Same as CHEN 4650.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-5670 (3) Environmental Separations

Lect. Covers traditional, as well as new, chemical separations processes that have environmental applications. Includes chemically benign processing (pollution prevention) as well as approaches to address existing pollution problems. Extra work required for graduate course. Same as CHEN 4670.

[College of Engineering & Applied Science](#) | [Chemical Engineering](#)

CHEN-5740 (3) Analytical Methods in Chemical Engineering

Presents applied analytical and numerical mathematical methods in the context of chemical engineering problems. Topics include modeling techniques, algebraic equations, and ordinary and partial differential equations. Prereq., senior or graduate standing; working knowledge of computing, calculus, differential equations, linear algebra, and vector operations; and undergraduate courses in physics, fluid mechanics, heat transfer, and reaction engineering. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5750 (3) Numerical Methods in Chemical Engineering

Covers numerical methods for solving ordinary differential, partial differential, and integral equations. These principles are employed to develop, test, and assess computer programs for solving problems of interest to chemical engineers. Prereq., graduate standing or instructor consent.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5800 (3) Bioprocess Engineering

Same as CHEN 4800, except that a major term report is required.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5803 (3) Metabolic Engineering

Introduces basic concepts in metabolic engineering and explores modern approaches in metabolic and strain engineering. Application areas that will be discussed will include the use of metabolic engineering approaches in biofuels and biorefining as well as biopharmaceutical production. CHEN 4803 and 5803 are the same course. Prerequisites: Requires pre-requisite courses of APPM 2360 and CHEM 4731 or CHEM 4611.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5805 (3) Biomaterials

Same as CHEN 4805.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5820 (3) Biochemical Separations

Extra work required for graduate course. Same as CHEN 4820. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5830 (1) Introduction to Modern Biotechnology

Introduces students to the biotechnology enterprise. Topics include the biotechnology industry and profession, the various academic disciplines of biotechnology, intellectual property, financing, and ethics.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5831 (2) Biotechnology Case Studies

Capstone course required of all graduate students in the interdisciplinary graduate biotechnology certificate program. Reviews molecular genetics, product synthesis and purification, economics, intellectual property, and business planning. Working in teams, students present a biotechnology product plan. Prereq., CHEN 5830.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5835 (3) Colloids and Interfaces

Provides a deep exploration of the fundamental principles of colloid and interface science and of related applications. Core topics include fundamental equations of interfacial science, capillary phenomena, interfacial thermodynamics interfaces, molecular monolayers, electrical surface properties, and interfacial forces. Advanced topics include wetting phenomena, adsorption isotherms, dynamic interfacial behavior, surface modification, tribology, surfactant self-assembly, and foams/emulsions among others. Prereq., CHEN 3320 (min. grade C-).

College of Engineering & Applied Science | Chemical Engineering

CHEN-5836 (3) Nanomaterials

Presents fundamental chemical and physical concepts that give rise to the unique optical, electronic and magnetic properties of nanoscale materials. Introduces important synthetic routes for producing nanomaterials, and interparticle forces governing colloidal behavior and self-assembly. Discusses current and potential applications in catalysis, biomedicine, renewable energy, and other fields. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) or graduate students only. CHEN 4836 and 5836 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5838 (1-3) Special Topics in Chemical Engineering

Graduate-selected topics courses offered upon demand. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5840 (1-4) Independent Study

Available to MS and PHD students.

College of Engineering & Applied Science | Chemical Engineering

CHEN-5900 (3) Pharmaceutical Biotechnology

Incorporates biochemistry, pharmaceutical science, and engineering for application in the pharmaceutical industry. Emphasizes microscale mechanisms affecting drug delivery, bioavailability, and stability. Specific topics include thermodynamics of macromolecular conformational stability, crystallization kinetics, interfacial phenomena, and industrial protein folding. Prereq., graduate standing.

College of Engineering & Applied Science | Chemical Engineering

CHEN-6210 (3) Microhydrodynamics of Suspensions and Colloids

Focuses on fluid mechanics and colloid science of suspensions of particles, cells, and drops. Covers fundamentals, applications, and research frontiers. Prereq., CHEN 5210 or equivalent.

College of Engineering & Applied Science | Chemical Engineering

CHEN-6820 (3) Biochemical Engineering Fundamentals

Covers design and operation of fermentation processes, microbial and enzyme kinetics, multiple substrate and multiple species of fermentation, regulation of enzyme activity, energetics of cellular growth, immobilized enzyme and cell reactors, and transport phenomena in microbial systems and downstream processing. Prereq., graduate standing in CHEM, CHEN, or MCDB, or instructor consent.

College of Engineering & Applied Science | Chemical Engineering

CHEN-6940 (1) Master's Candidate

College of Engineering & Applied Science | Chemical Engineering

CHEN-6950 (1-6) Master's Thesis

College of Engineering & Applied Science | Chemical Engineering

CHEN-8990 (1-10) Doctoral Thesis

College of Engineering & Applied Science | Chemical Engineering

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Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

CHIN

CHIN-1010 (5) Beginning Chinese 1

Introduces modern Chinese (Mandarin), developing all four skills (speaking, listening, reading and writing) and communicative strategies. Students learn both traditional full-form characters and the principles for converting them into simplified characters. Credit not granted for this course and CHIN 1150.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

CHIN-1012 (3-4) Introduction to Chinese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of China. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese Courses in English](#)

CHIN-1020 (5) Beginning Chinese 2

Continuation of CHIN 1010. Prereq., CHIN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

CHIN-1051 (3) Masterpieces of Chinese Literature in Translation

Surveys Chinese thought and culture through close reading and discussion of selected masterworks of Chinese literature in translation.

Texts include significant works of poetry, fiction, and drama, as well as philosophical and historical writings from various eras. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

CHIN-1061 (3) Boudoirs, Books, Battlefields: Voices and Images of Chinese Women

Explores narrative and visual representations of women throughout Chinese history. Emphasizes how modern values of freedom and equality have transformed women's lives and shaped their aspirations. Course materials include memoirs, novels, ethnographies, documentaries, and feature films. No knowledge of Chinese is necessary. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

CHIN-2110 (5) Intermediate Chinese 1

Emphasizes reading, speaking, and writing modern Chinese, including continued study of both full-form and simplified characters. Introduces dictionaries and principles of character formation. Prereq., CHIN 1020 (min. grade C) or instructor consent. Credit not granted for this course and CHIN 2150. Meets MAPS requirement: foreign language.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-2120 (5) Intermediate Chinese 2

Continuation of CHIN 2110. Prereq., CHIN 2110 (min. grade C) or instructor consent. Credit not granted for this course and 2150.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-2441 (3) Film and the Dynamics of Chinese Culture

Through studying a group of Chinese films in light of modern Chinese history and literature, students examine a series of cultural dilemmas and issues in 20th century China and develop skills in analyzing literary and filmic texts. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

CHIN-3110 (5) Advanced Chinese 1

Surveys a variety of authentic-language materials, including films, plays, newspaper articles, essays, and short stories. Emphasizes

proficiency-oriented approach to reading, writing, and oral communication. Prereq., CHIN 2120 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-3120 (5) Advanced Chinese 2

Continuation of CHIN 3110. Prereq., CHIN 3110 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-3200 (3) Adv Wrtg Topics on Chinese & Japanese Literature and Civilization

Provides an introduction to the academic study of Chinese and Japanese literature and culture with a focus on writing skills in English through a survey of standard academic writing conventions. Review and assessment of selected textual materials, class presentation, critique, and revision. Recommended for Chinese and Japanese majors and minors. Approved for arts and sciences core curriculum: written communication. CHIN 3200 and JPNS 3200 are the same course.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-3311 (3) The Dao and the World in Medieval China

An interdisciplinary examination of role of Daoist and Buddhist philosophical and religious concepts and images in medieval Chinese civilization, including literature and the arts. Focuses on the personal aspects of this period of religious and intellectual ferment, tracing the representation of these ideas in Chinese poetry, prose, painting and the plastic arts as well as their role in philosophical and religious speculation. Taught in English. Recommended prereq., CHIN 1012 or 1051.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

CHIN-3321 (3) Culture and Literature of Ancient China

Focuses on the religious, cultural, philosophical, and literary aspects of ancient Chinese civilization (1500 B.C.-A.D. 200). Special attention is paid to foundational works that influenced later developments in Chinese culture. All readings are in English. Recommended prereq., CHIN 1012 or 1051. Same as HUMN 3321.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

CHIN-3331 (3) Culture and Literature of Late Imperial China

The late imperial period was marked by growth of great metropolitan areas, expanded urban entertainments, and an extensive popular

culture. Focuses on the literature and artifacts of this urban culture as well as the hegemonic culture of the state and of traditional social codes and their literary manifestations. Also considers growing contacts with the West and the transition to the modern period. All readings are in English. Taught in English . Recommended prereq., CHIN 1012 or 1051.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese Courses in English](#)

CHIN-3334 (3) Chinese Narrative Tradition

Examines the major works of Chinese narrative tradition from the fourth to the nineteenth century. Emphasizes the reading and analysis of selected texts and understanding of the cultural and social contexts of text production and circulation. Text selections vary from year to year. All readings are in English. Recommended prereq., CHIN 1012.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese Courses in English](#)

CHIN-3341 (3) Literature and Popular Culture in Modern China

Surveys 20th century Chinese literature and popular culture against the historical background of rebellion, revolution, and reform. Emphasizes close and critical reading skills and an understanding of how aesthetic texts reflect and critically engage with historical and cultural experiences. Assignments include novels, essays, short stories, poems, plays, songs, films, and scholarly articles. Taught in English. Recommended prereq., CHIN 1021 or 1051. Same as HUMN 3341. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese Courses in English](#)

CHIN-3342 (3) Literary Culture in Contemporary China

Surveys the late 20th century Chinese and Taiwanese literature and popular culture against the historical background Market Reform in China and the lifting of Martial Law in Taiwan. Emphasizes close and critical reading skills and an understanding of how aesthetic texts critically engage within historical and cultural experiences. Assignments include novels, essays, short stories, poems, plays, songs, films, and scholarly articles. Taught in English. Recommended prereq., CHIN 1012 or 1051.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese Courses in English](#)

CHIN-3351 (3) Reality and Dream in Traditional Chinese Literature

Explores the role of dreams in pre-modern Chinese literature from the beginnings in the 2nd millennium B.C.E. to the 19th century. The source texts will range from religious, philosophical, medical and historical writings to poetry to various genres of fictional prose and drama. Taught in English. Prereq., junior standing or instructor consent. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese Courses in English](#)

CHIN-3361 (3) Women and the Supernatural in Chinese Literature

Explores the relationship between the worlds of women and the supernatural in Chinese literature, from ancient to modern times. Focuses on selected significant works of classical and vernacular fiction, religious texts, and poetry. Taught in English. Prereq., junior standing or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

CHIN-3371 (3) Topics in Chinese Film

Offers in-depth, critical analysis of key issues in Chinese culture as represented in Chinese film. Focuses on various topics, such as specific directors, regions, representation of gender in Chinese film, historical periods, etc. Varies from year to year. Requires no knowledge of Chinese. May be repeated up to 6 total credit hours on different topics. Prereq., junior standing or instructor consent. Recommended prereq., CHIN 1051, 2441.

College of Arts & Sciences Asian Languages & Civilizations Chinese Courses in English

CHIN-4110 (3) Advanced Readings in Modern Chinese 1

Surveys a wide variety of 20th- and 21st-century texts that are of recognized literary or cultural importance. Focuses on translation, including discussion of content and style. Prereq., CHIN 3120 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-4120 (3) Advanced Readings in Modern Chinese 2

Continuation of Chin 4110. Prereq., Chin 4110 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-4210 (4) Introduction to Classical Chinese

Introduces the classical language based on texts from the pre-Han and Han periods. Stresses precise knowledge of grammatical principles and exactitude in translation---the basis for all further work in classical Chinese. Prereq., CHIN 2120 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-4220 (4) Readings in Classical Chinese

Close reading of selected texts of ancient and medieval literature. Readings in both prose and poetry. Emphasizes a disciplined, philological approach to the texts, with proper attention to diction, tone, and nuance. Prereq., CHIN 4210, or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

CHIN-4300 (3) Open Topics: Readings in Chinese Literature

Studies selected texts on a particular topic taught by regular or visiting faculty. Topics change each term. May be repeated up to 6 total credit hours. Prereq., junior standing or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

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Courses

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All

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Subject Number

CHIN

CHIN-4750 (3) Daoism

Detailed examination of scriptures, liturgies, precept codes, and hagiographies of Daoism, China's indigenous organized religion. Focusing on origins and development, ethical teachings, ritual activities and world view. Topics include the relationship of Daoism to popular religion, practice of alchemy and self-cultivation, beliefs concerning death and afterlife, and structure of the Daoist pantheon. Prereq., RLST 3800 or instructor consent. Same as CHIN 5750 and RLST 4750.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

CHIN-4900 (1-3) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

CHIN-4980 (1) Practical Issues in Chinese Language Pedagogy

Focuses on practical issues in Chinese language pedagogy for students who will serve as teaching assistants in Chinese language courses. Examines the connection between theory and practice as well as practical methods for teaching Chinese. Equips students with basic Chinese linguistic knowledge. Discusses the use of Communicative Approach in teaching Chinese as a second language. Prereq., CHIN 4120 or equivalent. Same as CHIN 5980.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

CHIN-5010 (3) Sinological Methods

Provides training in research methods for graduate work in Sinology. Regular exercises require students to use standard bibliographic sources and tools, such as leishu, congshu, specialized dictionaries, dynastic histories, geographical treatises, gazetteers, and private historiography. Prereq., CHIN 4220 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5030 (3) Readings in Pre-Modern Chinese Literary Theory

Introduces the field of pre-modern Chinese literary theory and its relevance in Chinese intellectual history. Based on the close reading of primary sources, i.e. typically on selected core texts of Chinese literary thought, as well as on the reading of secondary literature. Texts and topics vary from year to year. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5120 (3) History of Literature through the Ninth Century

Surveys, with readings in primary and secondary sources, major landmarks in various areas of ancient and medieval literature. Focuses on the classic and most influential works of the Zhou through Tang dynasties. Gives attention to matters of historical fact and actuality as well as to textual and interpretive history. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5210 (3) Ancient Prose

Studies selected pre-imperial and Han prose texts important in their own time and for the influence they exercised on the later development of Chinese literary history. Focuses on works such as the Lun yu, Mengzi, Zhuangzi, Huainanzi, Shiji, Hanshu, and Lunheng. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5220 (3) Ancient Poetry

Studies selected pre-imperial and Han poetic works important in their own time and for the influence they exercised on the later development of Chinese literary history. Focuses on the Shijing and the Chu ci, as well as the fu and shi of Han writers. Texts and selections vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5230 (3) History of Early Chinese Thought

Introduces early Chinese philosophy, mostly "Masters' Literature" of the 5th--1st c. BCE, which is foundational for all later Chinese philosophy and political thought. Close reading of primary sources will be combined with an introduction to secondary scholarship in English and modern Chinese, both articles on individual texts/philosophers and comprehensive histories of early Chinese philosophy. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5280 (3) Topics in Ancient Literature

Examines a specific problem or issue in ancient Chinese literature, e.g., early views of language's relationship to reality, or the commentary tradition and the emergence of allegorical and metaphysical approaches to interpreting texts. Topics vary from year to year. May be repeated up to 9 total credit hours. Prereq., Chin 4220 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5410 (3) Medieval Prose

Studies works of early medieval (ca. 200-600 AD) and/or late medieval (600-900) prose that played important role in development of Chinese literature. Writers and topics vary, ranging from surveys of specific genre, literary essays, proto-fiction, or historical writings, to focused studies of major figures Liu Zhiji, Han Yu, or Liu Zongyuan. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent required.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5420 (3) Medieval Poetry

Studies works of early medieval (ca. 200-600 AD) poetry . Writers and topics vary ranging from surveys of specific genre, shi or fu, or shared subject such as religious or commemorative verse, or specific periods, to focused studies of particular major figures Cao Zhi, Tao Qian, Li Bo, or Du Fu. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5430 (3) Medieval Thought and Religion

Studies selected works of early medieval (ca. 200-600 AD) and/or late medieval (600-900) religious importance. Selections vary from fundamental texts of both literary and religious value, Daoist and Buddhist canons, the Huangting jing, Zhen gao, Miaofa lianhua jing, and Tan jing, particular topics of social or cultural importance, character assessment, arcane learning, or methods of commentary. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5480 (3) Topics in Medieval Literature

Examines a specific problem or issue in medieval literature, e.g., the role of encyclopedias and anthologies in literary training, or the place and forms of literary composition at the imperial court. Topics vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5610 (3) Early Modern Prose

Studies Song, Ming, and Qing prose texts selected for their inherent literary merit and for their significance in the Chinese literary tradition. Typically focuses on works by major authors such as Ouyang Xiu, Su Shi, and Yuan Hongdao. Texts and selections vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5620 (3) Early Modern Poetry

Studies Song, Yuan, Ming and Qing poetry. Stresses major figures, stylistic variations, various poetry schools, new directions in shi verse, and the rise and development of ci. Texts and selections vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5630 (3) Early Modern Fiction

Explores selected vernacular and classical fiction of the Ming and Qing periods. Normally focuses on long novels such as Xiyou ji, Sanguo yanyi, Shuihu zhuan, Jin Ping Mei, as well as short stories by Feng Menglong and Ling Mengchu. Texts and selections vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5680 (3) Topics in Early Modern Literature

Examines a specific problem or issue in early modern literature (e.g., the relationships among religion, folklore, and early fiction; the issue of genre and traditional fiction); the role of elite versus popular cultures in the composition of fiction; or the relationship of the state and censorship and the southern philosophical schools to the publication of fiction. Topics vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4220 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5750 (3) Daoism

Detailed examination of scriptures, liturgies, precept codes, and hagiographies of Daoism, China's indigenous organized religion. Focusing on origins and development, ethical teachings, ritual activities and world view. Topics include the relationship of Daoism to popular religion, practice of alchemy and self-cultivation, beliefs concerning death and afterlife, and structure of the Daoist pantheon. Restricted to graduate students or instructor consent required. Same as CHIN 4750 and RLST 5750. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5810 (3) Modern Literature

Examines selected texts in various genres of Chinese literature from the May Fourth period (beginning 1917) to the establishment of the People's Republic of China (1949). Focuses on major and influential works produced in this fertile period of experimentation with Western, modernist types of literature. Texts and selections vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4120 or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5820 (3) Contemporary Literature

Examines selected texts in various genres of Chinese literature from 1949 (the establishment of the People's Republic of China) to the present. Focuses on major works from the very different literary worlds of Taiwan and mainland China. Texts and selections vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4120 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5830 (3) History of Chinese Film

Examines the development of narrative film in China from the early twentieth century to today, covering the major periods, styles, and themes developed in Chinese cinema. Texts and selections vary from year to year. May be repeated up to 6 total credit hours. Prereq., CHIN 4120 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5880 (3) Topics in 20th Century Literature

Examines a specific problem or issue in 20th century literature, e.g., feminist fiction in China, modernism in fiction and poetry, or the role of literary criticism in modern literature. Topics vary from year to year. May be repeated up to 9 total credit hours. Prereq., CHIN 4120 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Chinese

CHIN-5890 (3) Topics in Chinese Film

Examines a specific problem or issue in Chinese film, e.g. 5th generation filmmakers, early film, genre (martial arts, melodrama, Hong Kong action, etc.), Taiwan New Cinema, Hollywood crossover. Topics vary from year to year. May be repeated up to 6 total credit hours. Prereq., CHIN 4120 or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

CHIN-5900 (1-3) Independent Study

May be repeated up to 9 total credit hours.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Chinese](#)

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Courses

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All

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CHIN

CHIN-5980 (1) Practical Issues in Chinese Language Pedagogy

Focuses on practical issues in Chinese language pedagogy for students who will serve as teaching assistants in Chinese language courses. Examines the connection between theory and practice as well as practical methods for teaching Chinese. Equips students with basic Chinese linguistic knowledge. Discusses the use of Communicative Approach in teaching Chinese as a second language. Prereq., CHIN 4120 or equivalent. Same as CHIN 4980.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese](#)

CHIN-6900 (1-6) Independent Study

May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese](#)

CHIN-6940 (1) Master's Degree Candidate

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese](#)

CHIN-6950 (1-6) Master's Thesis

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Chinese](#)



Courses

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All

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Subject **Number**

CLAS

CLAS-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. No Greek or Latin required. Same as LING 1010.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

CLAS-1013 (4) Beginning Classical Greek 1

For students with no previous knowledge of Greek. Introduces basic grammar and vocabulary.

[College of Arts & Sciences](#) [Classics](#) [Greek](#)

CLAS-1014 (4) Beginning Latin 1

Introduces basic grammar and vocabulary. For students with no previous knowledge of Latin.

[College of Arts & Sciences](#) [Classics](#) [Latin](#)

CLAS-1020 (3) Argument from Evidence: Critical Writing about the Ancient World

Introduces students to writing about the ancient world, with special attention to the possibilities and the limitations of ancient source-material. Taught as a writing workshop, with emphasis on critical thinking, analysis, argument and inquiry. While the course reads foundational ancient texts, the skills acquired will be broadly useful among humanities disciplines. Approved for arts and sciences core

curriculum: written communication.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-1023 (4) Beginning Classical Greek 2

Completes the presentation of grammar and introduces reading of literature. Prereq., CLAS 1013 or equivalent.

College of Arts & Sciences Classics Greek

CLAS-1024 (4) Beginning Latin 2

Completes the presentation of grammar, incorporates review of fundamentals, and introduces reading of literature. For students with previous experience of Latin. Prereq., CLAS 1014 or equivalent.

College of Arts & Sciences Classics Latin

CLAS-1030 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. No Greek or Latin required. Same as PHIL 1010. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-1051 (3) The World of the Ancient Greeks

Presents a survey of the emergence, the major accomplishments, the failures, and the decline of the ancient Greeks, from the Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.). No Greek or Latin required. Same as HIST 1051. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Classics Ancient History

CLAS-1061 (3) The Rise and Fall of Ancient Rome

Presents a survey of the rise of ancient Rome in the eighth century B.C. to its fall in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. No Greek or Latin required. Same as HIST 1061. Approved for arts and sciences core curriculum: historical context.

CLAS-1100 (3) Greek Mythology

Covers the Greek myths as documents of early human religious experience and imagination, the source of Greek culture, and part of the fabric of Western cultural tradition. Of particular interest to students of literature and the arts, psychology, anthropology, and history. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

CLAS-1110 (3) Muses and Man-eaters (1): The Literature of Ancient Greece

Surveys Greek authors whose works have most influenced Western thought: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, and Plato. No Greek or Latin required. Approved for arts and sciences core curriculum: literature and the arts.

CLAS-1115 (3) Masterpieces of Greek Literature in Translation

Students read about mythological heroes and historical individuals from Achilles to Socrates in Greek literature. Class discusses why the Greeks told stories the way they did and what those stories might have meant to them and might mean to us. Approved for arts and sciences core curriculum: literature and the arts.

CLAS-1120 (3) Muses and Man-Eaters (2): The Literature of Ancient Rome

Surveys ideas and culture of the Romans through a study of representative literature: comedy, tragedy, history, philosophy, oratory, the novel, lyric, epic, and didactic poetry. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

CLAS-1140 (3) Bread and Circuses: Society and Culture in the Roman World

Surveys the outstanding achievements of Roman culture and society as reflected in literature; philosophy and art; private and official religion; and legal and political thought. No Greek or Latin required. Approved for GT-AH2. Approved for arts and sciences core curriculum: historical context.

CLAS-1509 (4) Trash and Treasure, Temples and Tombs: Art and Archaeology of the Ancient World

Introduces the art and archaeology of ancient Egypt, Mesopotamia, Greece and Rome, examining various ancient approaches to power, religion, death and the human body. Analyzes art, architecture, and everyday trash to learn about ancient humanity. Same as ARTH 1509. Approved for arts and sciences core curriculum: historical context or literature and the arts.

CLAS-2004 (3) Accelerated Latin 1

Intensive introductory course in Latin including a survey of grammar and practice reading and writing. No previous knowledge of Latin is required. Formerly CLAS 5804.

CLAS-2009 (3) Modern Issues, Ancient Times

Considers issues of vital importance to humans, both now and in ancient times. Topics such as food, death, sex, family, literacy, or power are explored to consider how ancient societal norms and attitudes evolved, and how they relate to modern culture. Draws on material and literary evidence to develop an understanding of the complexities of ancient life. Same as ANTH 2009. Approved for arts and sciences core curriculum: historical context.

CLAS-2019 (3) Pompeii and the Cities of Vesuvius

Introduces the towns and villas buried by the eruption of Mt. Vesuvius in 79 C.E. Explores the layout and decoration of ancient Roman houses, the variety of artifacts uncovered as evidence for daily life and the history of the excavations. Same as ARTH 2019. Approved for arts and sciences core curriculum: historical context.

CLAS-2020 (3) Science in the Ancient World

Covers the development of scientific modes of thought, theory, and research from mythological origins (e.g., Hesiod's poetry) through pre-Socratic philosophers. Culminates in theories and research of Plato and Aristotle, including the Roman Empire. Students read original sources in translation. No Greek or Latin required.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-2041 (3) War and Society in Ancient Greece

Studies Greek warfare in its cultural, social, and economic contexts, in the light of anthropological comparisons and modern theories. No Greek or Latin required. Same as HIST 2041.

College of Arts & Sciences Classics Ancient History

CLAS-2044 (3) Accelerated Latin 2

Continuation of CLAS 2004. Reading of advanced texts: Caesar, Cicero, Ovid and others. Prereq., CLAS 2004. Formerly CLAS 3004.

College of Arts & Sciences Classics Latin

CLAS-2100 (3) Women in Ancient Greece

Examines evidence of art, archaeology, and literature of Greek antiquity from a contemporary feminist point of view. Focuses on women's roles in art, literature, and daily life. No Greek or Latin required. Same as WMST 2100. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-2110 (3) Women in Ancient Rome

Uses art, archaeology, and literature to study, from a contemporary feminist point of view, the status of women in works of Roman art and literature, the development of attitudes expressed toward them, and their daily life. No Greek or Latin required. Same as WMST 2110. Approved for GT-HI1. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-2114 (4) Intermediate Latin 1

Readings from Caesar and/or Cicero, with review of grammar. Prereq., CLAS 1024, or equivalent. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Classics Latin

CLAS-2124 (4) Intermediate Latin 2

Selections from Virgil's Aeneid with attention to literary form and context as well as advanced grammar and syntax. Prereq., CLAS 2114 or equivalent.

[College of Arts & Sciences](#) [Classics](#) [Latin](#)

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Courses

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All

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CLAS

CLAS-2610 (3) Paganism to Christianity

Offers a cultural history of Greek and Roman religion. Students read ancient texts in translation and use evidence from archaeology to reconstruct the shift from paganism to Christianity in antiquity. No Greek or Latin required. Same as PHIL 2610. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

CLAS-3013 (1) Readings in the Greek New Testament and Septuagint

Readings in ancient (koine) Greek from the New Testament and the Septuagint. Students aim to achieve fluency in reading and to enrich their knowledge of key terms and ideas borrowed from the Greek past in the early Christian tradition. May be repeated up to 4 total credit hours. Prereq., CLAS 1013 and 1023.

[College of Arts & Sciences](#) [Classics](#) [Greek](#)

CLAS-3014 (3) Introduction to Latin Prose

Author or topic in Latin specified in the online Schedule Planner (e.g., Cicero, Livy, Pliny). May be repeated up to 9 total credit hours for different topics.

[College of Arts & Sciences](#) [Classics](#) [Latin](#)

CLAS-3024 (3) Introduction to Latin Poetry

Author or topic in Latin specified in the online Schedule Planner (e.g., Virgil, Ovid, Catullus, Horace.) May be repeated up to 9 total credit hours for different topics.

College of Arts & Sciences Classics Latin

CLAS-3039 (3) Greek Art and Archaeology

Covers prehistoric Aegean through the fourth century B.C.E., considering architecture, pottery, painting, sculpture, and personal ornament. Societal customs such as use of space and burial patterns are considered as well as art and its uses, to help understand developments in Greek culture. Credit not granted for this course and CLAS/FINE 1009. Same as ARTH 3039. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Classics Art and Archaeology

CLAS-3049 (3) Introduction to Roman Art and Architecture

Introduces the monuments and sites of the ancient Roman world from the foundation of Rome (753 B.C.E.) to Constantine (306-307 C.E.). Emphasizes the relationship of art, architecture, and artifacts to the political, social, and religious institutions of Italy and the provinces. Same as ARTH 3049. Credit not granted for this course and CLAS 1019 or FINE 1019. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Classics Art and Archaeology

CLAS-3113 (3) Intermediate Classical Greek 1

Reading of selected prose texts of authors in ancient Greek such as Plato, Xenophon, Lysias, and selections from the Greek New Testament. Incorporates review of grammar. May be repeated up to 6 total credit hours. Prereqs., CLAS 1013 and 1023 or equivalent. Meets MAPS requirement for foreign language.

College of Arts & Sciences Classics Greek

CLAS-3123 (3) Intermediate Classical Greek 2

Reading of selections from Homer or a Greek tragedy in ancient Greek, with attention to literary form and context as well as advanced grammar and syntax. May be repeated up to 6 total credit hours. Prereqs., CLAS 1013, 1023 and 3113, or equivalent.

College of Arts & Sciences Classics Greek

CLAS-3400 (3) Special Topics in Classics

Topics in Greek, Latin or Classical civilization. May be repeated up to 9 total credit hours for different topics. No prerequisites.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-4013 (3) Topics in Greek Prose

Author or topic in ancient Greek specified in the online Schedule Planner (e.g., Thucydides, Herodotus, Plato, Aristotle, Attic Orators). May be repeated up to 6 total credit hours for different topics. Same as CLAS 5013.

College of Arts & Sciences Classics Greek

CLAS-4014 (3) Topics in Latin Prose

Author or topic in Latin specified in the online Schedule Planner (e.g., Roman historians, Roman epistolography, Cicero, Roman novel). May be repeated up to 9 total credit hours for different topics. Prereq., CLAS 3014 and 3024, or equivalent. Same as CLAS 5014.

College of Arts & Sciences Classics Latin

CLAS-4021 (3) Athens and Greek Democracy

Studies Greek history from 800 B.C. (the rise of the city-state) to 323 B.C. (the death of Alexander the Great). Emphasizes the development of democracy in Athens. Readings are in the primary sources. Same as CLAS 5021 and HIST 4021.

College of Arts & Sciences Classics Ancient History

CLAS-4023 (3) Topics in Greek Poetry

Author or topic in ancient Greek specified in the online Schedule Planner (e.g., Homer, Hesiod, lyric poetry, tragedy, comedy). May be repeated up to 9 total credit hours for different topics. Same as CLAS 5023.

College of Arts & Sciences Classics Greek

CLAS-4024 (3) Latin Prose Composition

Reviews grammar and syntax. Introduces Latin prose style and composition. Prereqs., CLAS 3014 and 3024, or equivalent. Same as CLAS 5024.

College of Arts & Sciences Classics Latin

CLAS-4031 (3) Alexander the Great and the Rise of Macedonia

Covers Macedonia's rise to dominance in Greece under Philip II and the reign and conquests of Alexander the Great. Prereq., one of the following: CLAS 1509, 3039, 3113, 4051, 4139, 4149, CLAS/HIST 1051, 2041, 4021, or 4041. Same as CLAS 5031 and HIST 4031.

College of Arts & Sciences Classics Ancient History

CLAS-4040 (3) Seminar in Classical Antiquity

Examines an advanced topic in classical language, literature, history, philosophy, art, or culture. Combines the techniques of philology with a critical approach to the literary and material legacy of the past. Prereq., second-year proficiency in Greek or Latin. May be repeated up to 6 total credit hours.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-4041 (3) Classical Greek Political Thought

Studies main representatives of political philosophy in antiquity (Plato, Aristotle, Cicero) and of the most important concepts and values of ancient political thought. No Greek or Latin required. Prereq., CLAS/HIST 1051, CLAS/HIST 1061, HIST 1010, PSCI 2004, or PHIL 3000. Same as CLAS 5041, HIST 4041, and PHIL 4210.

College of Arts & Sciences Classics Ancient History

CLAS-4044 (3) Topics in Latin Poetry

Author or topic specified in Latin specified in the online Schedule Planner (e.g., Roman elegy, Neronian poetry, Lucretius, Roman satire). May be repeated up to 9 total credit hours for different topics. Prereqs., CLAS 3014 and 3024, or equivalent. Same as CLAS 5044.

College of Arts & Sciences Classics Latin

CLAS-4061 (3) Twilight of Antiquity

Explores the reasons for the fall of the Roman Empire in the western Mediterranean and its survival in the East as Byzantium. Emphasizes Christianity; barbarians; social, economic, and cultural differences; contemporary views of Rome; and modern scholarship. No Greek or Latin is required. Same as CLAS 5061 and HIST 4061.

College of Arts & Sciences Classics Ancient History

CLAS-4071 (3) Seminar in Ancient Social History

Considers topics ranging from demography, disease, family structure, and the organization of daily life to ancient slavery, economics, and law. Focuses either on Persia, Greece, or Rome and includes a particular emphasis on the methodology required to reconstruct an ancient society, especially the interpretation of problematic literary and material evidence and the selective use of comparisons with better known societies. No Greek or Latin required. May be repeated up to 9 total credit hours. Same as CLAS 5071 and HIST 4071.

College of Arts & Sciences Classics Ancient History

CLAS-4081 (3) The Roman Republic

Studies the Roman Republic from its foundation in 753 B.C. to its conclusion with the career of Augustus. Emphasizes the development of Roman Republican government. Readings are in the primary sources. No Greek or Latin required. Same as CLAS 5081 and HIST 4081.

College of Arts & Sciences Classics Ancient History

CLAS-4084 (3) Survey of Roman Literature Part 2: Imperial

Covers Imperial Roman literary history from the mid-late Augustan Period to the start of Late Antiquity. Students read principal surviving works of Imperial Roman poetry and prose in the original Latin. Prereqs. CLAS 3014 and 3024 or equivalent. Same as CLAS 5084.

College of Arts & Sciences Classics Latin

CLAS-4091 (3) The Roman Empire

Intense survey of Imperial Rome from the Roman revolution to the passing of centralized political authority in the western Mediterranean. Emphasizes life, letters, and personalities of the empire. No Greek or Latin required. Same as CLAS 5091 and HIST 4091.

College of Arts & Sciences Classics Ancient History

CLAS-4093 (3) Survey of Greek Literature

Greek literary history in ancient Greek from Homer to the Hellenistic age. Prereqs., CLAS 3113 and 3123 or equivalent. Same as CLAS 5093.

College of Arts & Sciences Classics Greek

CLAS-4094 (3) Survey of Roman Literature Part 1: Republican to Augustan

Introduces Roman literary history from its origins to the 30s BCE. Students read principal surviving works of the Roman Republican poetry and prose in the original Latin. Prereqs., CLAS 3014 and 3024 or equivalent. Same as CLAS 5094.



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All

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CLAS

CLAS-4109 (3) Ancient Italian Painting

Explores the problems, theories and methods for understanding the iconography, styles, topologies, contexts and techniques of fresco wall painting in ancient Italy from the 6th century B.C.E. to the 4th century C.E. Topics covered include Etruscan tomb paintings, late Republican and early imperial fresco paintings from Rome and Campania, and later Roman wall paintings, including the painted images in ancient catacombs. Previous course work on ancient Italy or the history of pre-modern art is highly recommended. Recommended prereqs., CLAS/ARTH 1509, 3049. Same as CLAS 5109 and ARTH 4109.

[College of Arts & Sciences](#) [Classics](#) [Art and Archaeology](#)

CLAS-4110 (3) Greek and Roman Epic

Students read in English translation the major epics of Graeco-Roman antiquity such as the Iliad, Odyssey, Argonautica, Aeneid, and Metamorphoses. Topics discussed may include the nature of classical epic, its relation to the novel, and its legacy. No Greek or Latin required. Same as CLAS 5110 and HUMN 4110. Approved for arts and science core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Classics](#) [Literature, Culture, & Thought](#)

CLAS-4119 (3) Roman Sculpture

Examines ancient Roman sculpture, emphasizing the display, iconography, and production of private and public monuments in the Roman Empire. Same as CLAS 5119 and ARTH 4119.

[College of Arts & Sciences](#) [Classics](#) [Art and Archaeology](#)

CLAS-4120 (3) Greek and Roman Tragedy

Intensive study of selected tragedies of Aeschylus, Sophocles, Euripides, and Seneca in English translation. No Greek or Latin required. Same as CLAS 5120 and HUMN 4120. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-4129 (3) Aegean Art and Archaeology

A detailed study of the cultures of prehistoric Greece, the Cycladic Islands, and Crete, their art and archaeology, and their history within the broader context of the eastern Mediterranean, from earliest human settlement to the collapse of the Bronze Age at about 1100 B.C.E. Emphasis is on palace states. Same as ANTH/ARTH 4129, CLAS 5129.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4130 (3) Greek and Roman Comedy

Studies Aristophanes, Plautus, and Terence in English translation. No Greek or Latin required. Same as CLAS 5130 and HUMN 4130. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-4139 (3) Greek Vase Painting

A comprehensive overview of Greek vase painting, from prehistoric through the fourth century B.C.E. Emphasis is on learning the development of primary decorative styles and on refining skills of visual analysis, scholarly research, critical thinking, oral commentary, and written presentation. Same as CLAS 5139 and ARTH 4139.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4140 (3) The Greek and Roman Novel

Studies five surviving complete Greek novels from classical antiquity, three Latin novels, and their predecessors and contemporary neighbors in the genres of Greek prose fiction. Readings in English translation. No required prerequisite, but a previous course in classical literature or myth is recommended. Same as CLAS 5140 and HUMN 4131.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-4149 (3) Greek Cities and Sanctuaries

Examines Greek architecture in context, from the ninth century B.C.E. into the Hellenistic period, considering the use of space, both in religious and in civic settings, and using texts as well as material culture. Emphasis is on developing analytical skills. Same as CLAS 5149 and ARTH 4149.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4169 (3) Topics in Ancient and Classical Art and Archaeology

In-depth consideration of an aspect of ancient Mediterranean culture. Topics vary; they may include ancient wall painting, Greek sculpture, artists and patrons, the ancient Near East, Egyptian art and archaeology, or Etruscan art and archaeology. May be repeated up to 9 total credit hours providing the topics are different. Same as CLAS 5169 and ARTH 4169.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4199 (3) Roman Architecture

Examines the designs, functions, and construction methods of ancient Roman towns, temples, baths, houses, and civic structures, as well as utilitarian structures, including roads and aqueducts. Emphasizes Roman architectural forms and spaces as vehicles for political propaganda and empire consolidation. Same as CLAS 5199 and ARTH 4199.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4209 (3) Classical Archaeological Field Methods

Offers experiential learning in theories and methods of field excavation at the Villa of Maxentius in Rome. Applies methods for stratigraphic excavation, electronic surveying with GIS, ceramic analysis, numismatic analysis, architectural construction materials and methods, artifact conservation and data processing and documentation. Offered abroad only. May be repeated up to 6 total credit hours. Coreq., CLAS 4219 for first 3 credit hours. Recommended prereqs., CLAS/ARTH 1509, 3049. Same as CLAS 5209 and ARTH 4209.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4219 (3) Maxentius and the City of Rome

Combines seminar discussion and site visits in Rome and Tivoli to understand the excavations at the Villa of Maxentius and its artifacts in the broader contexts of Roman architectural development, late Roman art, and late imperial Roman history. Offered abroad only. Must be taken concurrently with CLAS/ARTH 4209 or CLAS 5209. Recommended prereqs., CLAS/ARTH 1509, 3049. Same as CLAS 5219 and ARTH 4219.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4269 (3) Art and Archaeology of the Ancient Near East

Examines civilizations of the Iran-Iraq region from the rise of urbanism in Mesopotamia through the era of the first 'world empire,' Achaemenid Persia. Emphasizes the material record of religious and state institutions of the ancient Near East, especially monuments that illustrate concepts of kingship. Explores notions of style, symbolism, visual rhetoric, text-image synthesis, patronage, creativity, and roles of artists. Recommended prereq., CLAS/ARTH 1509. Same as CLAS 5269 and ARTH 4269. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4761 (3) Roman Law

Studies the constitutional and legal history of ancient Rome; emphasizes basic legal concepts and comparisons with American law. No Greek or Latin required. Same as CLAS 5761 and HIST 4761.

College of Arts & Sciences Classics Ancient History

CLAS-4824 (3) Latin Teaching Methods: Open Topics

Covers specialized topics in Latin pedagogy specified in the online Schedule Planner. Same as CLAS 5824.

College of Arts & Sciences Classics Latin

CLAS-4840 (1-4) Independent Study

No Greek or Latin required. May be repeated up to 7 total credit hours.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-4843 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Classics Greek

CLAS-4844 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Classics Latin

CLAS-4849 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Classics Art and Archaeology

CLAS-4852 (1-3) Honors Thesis

College of Arts & Sciences Classics Classical Philology

CLAS-5013 (3) Topics in Greek Prose

Same as CLAS 4013. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Greek

CLAS-5014 (3) Topics in Latin Prose

Same as CLAS 4014. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Latin

CLAS-5021 (3) Athens and Greek Democracy

Same as CLAS 4021. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Ancient History

CLAS-5023 (3) Topics in Greek Poetry

Same as CLAS 4023. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Greek



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CLAS

CLAS-5024 (3) Latin Prose Composition

Same as CLAS 4024. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Classics](#) [Latin](#)

CLAS-5031 (3) Alexander the Great and the Rise of Macedonia

Same as CLAS 4031. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Classics](#) [Ancient History](#)

CLAS-5041 (3) Classical Greek Political Thought

Same as CLAS 4041. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Classics](#) [Ancient History](#)

CLAS-5044 (3) Topics in Latin Poetry

Author or topic specified in Latin specified in the online Schedule Planner (e.g., Roman elegy, Neronian poetry, Lucretius, Roman satire). May be repeated up to 9 total credit hours for different topics. Same as CLAS 4044. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Classics](#) [Latin](#)

CLAS-5061 (3) Twilight of Antiquity

Same as CLAS 4061 and HIST 5061. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Ancient History

CLAS-5071 (3) Seminar in Ancient Social History

Same as CLAS 4071. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Ancient History

CLAS-5081 (3) The Roman Republic

Same as CLAS 4081. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Ancient History

CLAS-5084 (3) Survey of Roman Literature Part 2: Imperial

Same as CLAS 4084. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Latin

CLAS-5091 (3) The Roman Empire

Same as CLAS 4091. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Ancient History

CLAS-5093 (3) Survey of Greek Literature

Same as CLAS 4093. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Greek

CLAS-5094 (3) Survey of Roman Literature Part 1: Republican to Augustan

Same as CLAS 4094. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Latin

CLAS-5109 (3) Ancient Italian Painting

Same as CLAS 4109 and ARTH 5109. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5110 (3) Greek and Roman Epic

Same as CLAS 4110. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-5119 (3) Roman Sculpture

Same as CLAS 4119 and ARTH 5119. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5120 (3) Greek and Roman Tragedy

Same as CLAS 4120. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-5129 (3) Aegean Art and Archaeology

Same as CLAS 4129. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5130 (3) Greek and Roman Comedy

Same as CLAS 4130. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-5139 (3) Greek Vase Painting

Same as CLAS 4139. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5140 (3) The Greek and Roman Novel

Same as CLAS 4140. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-5149 (3) Greek Cities and Sanctuaries

Same as CLAS 4149 & ARTH 5149. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5159 (3) Hellenistic Art and Archaeology

Examines art and archaeology from the period following the death of Alexander the Great (late fourth century B.C.E.) to the conquest of Greece by the Romans (middle second century B.C.E.). Same as ARTH 5159. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5169 (3) Topics in Ancient and Classical Art and Archaeology

Same as CLAS 4169 and ARTH 4169. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5179 (3) City of Athens

Explores in detail the buildings, sculptures, pots, foreign imports, and society of Athens, considering material culture of individuals as much as civic programs. Emphasis is on ways the textual and archaeological evidence complement and/or contradict one another. The course focuses on the Periklean period, considering ways in which it developed from earlier times and influenced later ones in Athens. Same as ARTH 5179. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5189 (3) City of Rome

Explores in detail the architecture, sculptures, coins, frescoes, and other material evidence alongside the political and social history of Augustan Rome. Emphasis is on ways in which the textual and archaeological evidence complement and/or contradict one another. Will explore the impact of the early imperial period on later Roman phases of urban design and image making in the capital city. Same as ARTH 5189. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-5199 (3) Roman Architecture

Same as CLAS 4199 and ARTH 4199. Prerequisites: Restricted to Graduate Students only.

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CLAS

CLAS-5209 (3) Classical Archaeological Field Methods

Same as CLAS 4209. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
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CLAS-5219 (3) Maxentius and the City of Rome

Same as CLAS 4219. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Classics](#)
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CLAS-5269 (3) Art and Archaeology of the Ancient Near East

Same as CLAS 4269/ARTH 5269. Prerequisites: Restricted to Graduate Students only.

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CLAS-5404 (3) Special Project: Teaching

Trains students to prepare classroom-ready materials, which are then tested in the students' own classroom. Required of master's candidates (teaching of Latin option). Prereq., fulfillment of the remaining requirements for MA (teaching of Latin) or 27 hours of graduate work in classics. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Classics](#)
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CLAS-5761 (3) Roman Law

Same as CLAS 4761. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Ancient History

CLAS-5824 (3) Latin Teaching Methods: Open Topics

Same as CLAS 4824. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Latin

CLAS-5840 (1-3) Graduate Independent Study

No Greek or Latin required. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-6003 (3) Graduate Reading

Author or topic specified in the online Schedule Planner. May be repeated up to 9 total credit hours for different topics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Greek

CLAS-6004 (3) Graduate Reading

Author or topic specified in the online Schedule Planner. May be repeated up to 9 total credit hours for different topics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Latin

CLAS-6109 (3) Topics in Critical Theory and Ancient Art and Archaeology

Topics will vary and may focus on a particular approach to ancient material culture or on a particular time period or artifact category. Emphasis is placed on reading and using theory in considering the ancient world. May be repeated once for credit, provided the topics are different. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-6119 (1-3) Graduate Independent Study in Classical Art and Archaeology

May be repeated up to 7 total credit hours. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-6843 (1-3) Graduate Independent Study

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Greek

CLAS-6844 (1-3) Graduate Independent Study

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Latin

CLAS-6940 (1) Master's Degree Candidate

No Greek or Latin required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-6952 (1-6) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Classical Philology

CLAS-7011 (3) Seminar in Ancient History

Examines topics in ancient Greek and Roman history at an advanced seminar level. May be repeated up to 6 total credit hours. Same as HIST 7011. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Ancient History

CLAS-7012 (3) Graduate Seminar

Topic specified in online Schedule Planner. May be repeated up to 9 total credit hours for different topics. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Classical Philology

CLAS-7013 (3) Graduate Seminar in Greek Literature

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Greek

CLAS-7014 (3) Graduate Seminar in Latin Literature

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Latin

CLAS-7109 (3) Graduate Seminar in Ancient and Classical Art and Archaeology

Topics vary. Emphasis is on gaining expertise in using archaeological reports in tandem with (or contradiction to) textual sources, on reading and using critical theory, on improving analytical skills and discussion, and on honing discussion leadership abilities. May be repeated up to 6 total credit hours providing the topics are different. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Art and Archaeology

CLAS-7840 (1-3) Graduate Independent Study

No Greek or Latin required. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Classics Literature, Culture, & Thought

CLAS-8992 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Classics Classical Philology

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COML

COML-5000 (3) Proseminar

Introduces basic issues in comparative literature and basic problems in literary history. Provides an overview of history and rationale of the discipline, traditional areas of research, and recent developments. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Comparative Literature](#)

COML-5003 (3) Film and Fiction

Explores similarities and differences between literature and film as narrative arts. Studies novels, short stories, and plays and films made from them. Examines problems in point of view, manipulation of time, tone, structure, and setting. Same as FILM 4003. COML 5003 and ARTF 5003 are the same course.

[College of Arts & Sciences](#) [Comparative Literature](#)

COML-5030 (3) Foundations of Critical Theory

An introductory study of nineteenth-century German philosophy (especially Kant, Hegel, and Marx). Required course for the graduate certificate in Critical Theory. GRMN 5030 and COML 5030 are the same course.

[College of Arts & Sciences](#) [Comparative Literature](#)

COML-5051 (3) Critical Theory of the Frankfurt School

Serves as an introduction to the "Frankfurt School" and Critical Theory with particular emphasis upon rationality, social psychology,

cultural criticism, and aesthetics. Through close readings of key texts by members of the school (Horkheimer, Benjamin, Adorno, Habermas) we will work toward a critical understanding of the analytical tools they developed and consider their validity. Taught in English. GRMN 4051, 5051 and COML 5051 are the same course.

College of Arts & Sciences Comparative Literature

COML-5350 (3) Studies in Prose Narrative

Examines both short and long narrative prose fiction from a variety of periods and from diverse national literatures. Focuses on issues of defining genre and on the origins and significance of narrative prose within its cultural context. May be repeated once for credit. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Comparative Literature

COML-5352 (3) Russian Novel: Theory and Practice

Examines the Russian novel and its evolution as well as Western and Russian theories of the novel as they engage and reflect upon the claims of modernity. May be repeated up to 6 total credit hours. Restricted to graduate students or instructor consent. Same as GSLL 5352. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-5360 (3) Studies in Drama

Covers selected drama topics using a comparative approach. May be repeated once for credit. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-5370 (3) Studies in Poetry

Explores topics and problems in rhetoric and poetic practice from antiquity to the present day. May be repeated once for credit. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-5410 (3) Translation

Review of theories and practices of literary translation in their linguistic, historical, cultural, and other contexts. Translation of literary and other works from chosen foreign languages, commentaries, and analyses. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-5504 (3) Goethe's Faust

Systematic study of the Faust motif in Western literature, with major emphasis on Faust I and II by Goethe and Thomas Mann's Doctor Faustus. Restricted to graduate students or instructor consent required. Same as HUMN 4504 and GRMN 5504. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-5540 (3) Studies in the Baroque

Explores the literary, intellectual, and aesthetic culture of the European baroque of the late 16th and 17th centuries through different topics pertinent to this period. Presents an interdisciplinary analysis of baroque literature, philosophy, science, and art. Illuminates the complex historical transition from the Renaissance to the modernity of the Enlightenment. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Comparative Literature

COML-5610 (3) Introduction to Literary Theory

Covers major trends in 20th-century critical thinking. May be repeated once for credit. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-5620 (3) History of Literary Criticism

Prereq., graduate standing or instructor consent.

College of Arts & Sciences Comparative Literature

COML-5660 (3) Themes, Motifs, and Characters

May be repeated once for credit. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-5830 (3) Topics in Literature and History

May be repeated up to 6 total credit hours. Restricted to graduate students or instructor consent. Same as GSSL 5830. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-5840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Restricted to graduate students or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-6040 (3) Seminar: A Selected Topic

May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-6940 (1) Master's Candidate for Degree

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-6970 (3) Colloquium in Comparative Literature

May be repeated up to 6 total credit hours.

College of Arts & Sciences Comparative Literature

COML-7840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Comparative Literature

COML-8990 (1-10) Doctoral Dissertation

Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Comparative Literature](#)

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General Information

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COMM

COMM-1210 (3) Perspectives on Human Communication

Surveys communication in a variety of contexts and applications. Topics include basic concepts and general models of communication, ethics, language and nonverbal communication, personal relationships, group decision making, organizational communication, and impact of technological developments on communication. Required for COMM majors. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Communication](#)

COMM-1300 (3) Public Speaking

Covers theory and skills of speaking in various public settings. Examines fundamental principles from rhetorical and communication theory and applies them to oral presentations. Required for COMM majors.

[College of Arts & Sciences](#) [Communication](#)

COMM-1600 (3) Group Interaction

Covers basic theories, concepts, and characteristics that underlie face-to-face interactions in interpersonal, small group, and organizational settings. Activities stress the development of both task and relational skills in these settings. Required for COMM majors.

[College of Arts & Sciences](#) [Communication](#)

COMM-2000 (3) Topics in Communication

Investigates select topics in communication. Does not count toward the 2000-level courses required for the major, unless explicitly stated in the course schedule. May be repeated up to 6 total credit hours on different topics. Recommended prereqs., COMM 1210 and 1600.

College of Arts & Sciences Communication

COMM-2360 (3) Campaigns and Revolutions

Introduces concepts in rhetoric and argumentation that are used to explain significant social and political changes in our society. The goal is to show how social actors use rhetoric to promote some social goals and hinder others. Recommended prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Communication

COMM-2400 (3) Discourse, Culture and Identities

Examines how aspects of talk (e.g., turn-taking, speech acts, narratives, dialect, and stance indicators) link with identities (e.g., ethnic and racial, age, gender, work-related, and personal). Considers how communication is central to constructing who people are and examines social controversies related to talk and identities. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Communication

COMM-2500 (3) Interpersonal Communication

Focuses on basic processes in face-to-face interaction, including verbal and nonverbal messages, coordination in conversation, messages about self and others, and communication in personal relationships. Emphasizes theory and concepts rather than skills. Recommended prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Communication

COMM-2600 (3) Organizational Communication

Provides a communicatively based definition of formal organization and deals with individual-organizational relationships. Addresses topics such as organizational theory, organizational culture, power, technology, decision making, teamwork, leadership, diversity, gender, socialization, and ethics. Recommended prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Communication

COMM-3000 (3) Issues in Communication

Explores select issues in communication. May be repeated up to 6 total credit hours on different issues. Prereqs., COMM 1210 and 1600

or instructor consent. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Communication

COMM-3210 (3) Human Communication Theory

Acquaints students with general, thematic, and contextual theories of human communication. Gives attention to criteria for evaluating theories. Prereqs., COMM 1210 and 1600. Prerequisites: Requires pre-requisite courses of COMM 1210 and 1600. Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-3300 (3) Rhetorical Foundations of Communication

Provides the rhetorical foundations of communication through study of the humanistic traditions of rhetorical theory, with applications to social interaction and message analysis. Prereqs., COMM 1210, 1300 and 1600. Restricted to junior or senior Communication majors. Prerequisites: Requires pre-requisite courses of COMM 1210, 1300 and 1600. Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-3310 (3) Principles and Practices of Argumentation

Focuses on principles of argument, the process of critical decision making, and uses and limitations of logic and evidence. Contemporary issues (personal, social, political, or philosophical) are analyzed and debated. Prereq., COMM 1210 and 1600. Restricted to juniors or seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Communication

COMM-3320 (3) Persuasion in Society

Explores how persuasion influences decision making. Focuses on different definitions and models of persuasion, ethical perspectives on persuasion, qualitative and quantitative research on persuasion, and the tools of motivation, as well as how to create effective and ethical persuasive messages. Prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-3340 (3) Political Communication

Provides an overview of the role of communication in contemporary political life. Topics include political communication theories, political campaign communication, media and political communication, and the role of political communication in promoting democracy and public policy. Prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-3410 (3) Intercultural Communication

Explores complex relationships between culture and communication processes from various conceptual perspectives, such as social, psychological, interpretive, and critical. Considers the important role of context (e.g., social, historical, and cultural) in intercultural interactions. Recommended prereqs., COMM 1210 and 1600. Restricted to Juniors or Seniors only. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Communication

COMM-3510 (3) Family Communication

Explores communication in families from various theoretical perspectives, such as social constructionism, systems theory, and dialectical theory. Communication patterns and processes created and sustained by family members are examined, including rules, roles, stories, rituals, myths, metaphors, themes, and cycles. Prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-3610 (3) Communication, Technology, and Society

Presents theory, research, and exploration into computer-based technologies; studies implications for communication, interaction, and social relationships. Recommended prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-3740 (3) Qualitative Communication Research Methods

Provides an understanding of methods associated with the study of communication in natural settings. Focuses on strategies of collecting, analyzing, and reporting qualitative data, including participant observation, in-depth interviewing, textual analysis, and ethnographic narrative. Prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-3750 (3) Quantitative Research Methods

Introduces empirically oriented research methods in communication, critical review of the logic of social-scientific principles in communication, and analysis of quantitative data. Prereqs., COMM 1210 and 1600. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-3760 (3) Rhetorical Criticism

Applies key concepts from rhetorical theory to the analysis of specific speeches, written texts, and social situations within the humanistic tradition. Students read a variety of types of criticism and are encouraged to develop their own strategies for critical analysis. Prereqs., COMM 1210, 1600 and 3300. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-4000 (3) Advanced Topics in Communication

Analyzes special interest areas of communication theory, research, and practice. Course format involves lecture, discussion, investigative analysis, and practical application. May be repeated twice for credit on different topics. Prereqs., COMM 3210 and 3300 or consent required. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-4100 (3) Seminar in Honors Thesis Writing and Research

Provides the opportunity for students writing an honors thesis to develop their understanding of the research process and to improve their research and writing skills. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-4220 (3) Senior Seminar: Functions of Communication

Topical seminar on the functions of communication across interpersonal, group, organizational, and public contexts. Reviews current theory and research on topics such as communication and conflict, persuasion, and ethical dimensions of communication practices. May be taken twice for credit on different topics. Prereq., COMM 3210. Prerequisites: Requires pre-requisite course of COMM 3210 with grade of C- or better. Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-4300 (3) Senior Seminar: Rhetoric

Reviews current theory and research on topics such as rhetoric and publics, rhetoric as an interpretive social science, and rhetoric of social movements and political campaigns. May be taken twice for credit on different topics. Prereq., COMM 3300. Prerequisites: Requires pre-requisite courses of COMM 3300 with grade of C- or higher. Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-4510 (3) Senior Seminar: Interpersonal Communication

Reviews current theory and research on topics such as strategic interaction, relationship formation and maintenance, and identity and self-presentation. May be taken twice for credit on different topics. Prerequisites: Requires pre-requisite course of COMM 2500 & COMM 3210 with grade of C- or better. Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

[College of Arts & Sciences](#) [Communication](#)

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COMM

COMM-4600 (3) Senior Seminar: Organizational Communication

Reviews current theory and research on topics such as communication and organizational decision making, organizational culture, gender relations, communication technology, and power and control in organizations. May be repeated up to 6 total credit hours on different topics. Prerequisites: Requires pre-requisite course of COMM 2600 & COMM 3210 with grade of C- or better. Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

[College of Arts & Sciences](#) [Communication](#)

COMM-4610 (3) Communication Studies of Science and Technology

Reviews current theory and research associated with science, technology, and medicine. Topics include new communication technologies in organizations and society, discourses of scientific theory and science policy, and interaction in clinical setting. May be taken twice for credit on different topics. Prereqs., COMM 3210 and 3300 or instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

[College of Arts & Sciences](#) [Communication](#)

COMM-4840 (1-6) Undergraduate Independent Study

Note that the 14-hour limit in the major applies to any combination of independent study and internship credit. This course does not count toward the 33 credit hours required for the major. Recommended prereq., COMM 3210 and 3300. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

[College of Arts & Sciences](#) [Communication](#)

COMM-4930 (1-6) Internship

Studies are pursued in communication-related work experience projects that generally require 40 hours on the job per credit hour and evidence (e.g., journal, paper, and employer evaluation) of significant learning. Prereqs., COMM major status, 72 hours of overall course work, 18 hours of communication course work completed, 2.50 overall GPA, and a faculty sponsor. The 14-hour limit in the major applies to any combination of independent study and internship credit. This course does not count toward the 33 hours required for the major. Course is offered only for pass/fail credit. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Communication (COMM) majors only.

College of Arts & Sciences Communication

COMM-4950 (1-6) Senior Thesis: Honors

For exceptional communication majors who wish to graduate with department honors and receive credit for writing an honors thesis. Prereqs., COMM 4100, overall GPA of 3.35 or higher, and COMM GPA of 3.50 or higher.

College of Arts & Sciences Communication

COMM-5210 (3) Readings in Communication Theory

Critical overview of leading theoretical traditions in communication studies. Gives attention to metatheoretical issues, including epistemological foundations, the structure of communication theory as a field, and reflexivity between communication theory and cultural practice. Required for doctoral students in COMM; optional for master's students. Restricted to graduate students or instructor consent.

College of Arts & Sciences Communication

COMM-5220 (3) Seminar: Functions of Communication.

Prereq., graduate standing or instructor consent. Same as Comm 4220.

College of Arts & Sciences Communication

COMM-5230 (3) Applied Communication

Examines application of communication concepts, theories, methods, facilitations, and other practices to address real-world issues and problems. Discusses conceptual issues framing applied communication, examines purposes and methods informing such scholarship, and provides opportunity to evaluate and propose research. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Communication

COMM-5300 (3) Seminar: Rhetoric

Prereq., graduate standing or instructor consent. Same as COMM 4300.

College of Arts & Sciences Communication

COMM-5310 (3) Contemporary Rhetorical Criticism

Advanced critical analysis of rhetorical texts in terms of how they shape issues and appeal for judgment, create identities for speakers and their audiences, and construct perceptions of time, space, and the human condition. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Communication

COMM-5320 (3) Readings in Rhetoric

Survey of classical and contemporary readings in rhetoric. Required for doctoral students in COMM; optional for master's students. Restricted to graduate students or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-5420 (3) Readings in Group Interaction

Reading course examining communicative problems, practices, and outcomes in groups. Definitions of group and interaction, meta-theoretical and theoretical orientations, methodological practices for studying group interactions, including boundary development and management, interpersonal symbolic practices, deliberation, dialogue, and decision making are examined. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-5425 (3) Readings in Discourse and Social Practices

Examines the way communicators' discourse expressions (language, talk, interactional devices, semiotic practices, written texts) reflect and construct interpersonal exchanges, societal activities, and institutional scenes, as well as how discourse expression varies across different speech communities. Prereq., graduate standing. Recommended prereq., COMM 6010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-5600 (3) Seminar: Organizational Communication

Prereq., graduate standing or instructor consent. Same as Comm 4600.

College of Arts & Sciences Communication

COMM-5610 (3) Organizational Culture and Symbolism

Focuses on relationship between ideological elements (e.g., norms, values, and beliefs) and symbolic practices (e.g., metaphor, ritual, and storytelling) of organizational culture. Analyzes topics from viewpoints of academic theory and managerial practice. Reviews interpretive methods of researching workplace culture and symbolism. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Communication

COMM-5620 (3) Readings in Organizational Communication

Survey of traditional and contemporary readings in organizational communication. Treats theory, research, and application from a variety of perspectives. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-5720 (3) Readings in Communication and Technology

Survey of multidisciplinary research that examines various relationships between communication and technology. Students are encouraged to develop critical skills in perceiving assumptions and perspectives that motivate major theories in this area, and to examine how these have changed over time. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6010 (3) Communication Research and Theory

Provides an integrative overview of approaches and areas of study in communication. Required for MA and PHD communication students. Prereq., graduate standing in COMM. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6020 (3) Quantitative Research Methods

Introduces students to the practice of quantitative research in communication: conceptualization and critique of research projects, coding, experimental and survey approaches, reliability and validity, and statistical reasoning and methods of analysis. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6030 (3) Qualitative Research Methods

Introduction to the epistemology, methodology, and representational practices associated with qualitative studies in communication. Fieldwork methods emphasized include participant observation, interviewing, and document/artifact analysis. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6200 (3) Seminar: Selected Topics

Facilitates understanding of current and past theory and research on a selected topic in communication and the ability to develop new theory and research on that topic. May be repeated up to 9 total credit hours on different topics. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6310 (3) Rhetorical Criticism

Reviews current critical methods and issues related to rhetorical criticism, such as contemporary theory of rhetorical criticism, continental discourse theory, and critical theory. May be repeated up to 6 total credit hours on different topics. Prereq., graduate standing or instructor consent. Recommended prereqs., COMM 5310 and 5320.

College of Arts & Sciences Communication

COMM-6320 (3) Rhetorical Theory

Reviews current theory and research on topics such as contemporary rhetorical theory, rhetoric and public life, rhetoric as an interpretive social science, and rhetoric of social movements and political campaigns. May be repeated up to 6 total credit hours on different topics. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5320.

College of Arts & Sciences Communication

COMM-6330 (3) Rhetoric of Inquiry

Surveys foundational texts and contemporary research in the rhetoric of inquiry. Focuses on the role of persuasion in the production of knowledge. Analysis of distinctions between philosophical and rhetorical approaches to argument. Critical analysis of major theoretical and methodological traditions and topics with an emphasis on social dimensions of inquiry. Emphasizes critical analysis of major theoretical and methodological traditions. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5320. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6340 (3) Rhetoric and Civic Community

Considers performances of public life as rhetorical inducements of civitas. Topics include negotiation of self-regulation among interdependent partners, rhetorical exclusions and/or counterpublics, and dialectical tensions of public/private as these contribute to and have civic consequences for publicness, community, and social will. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5320.



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COMM

COMM-6350 (3) Seminar in Argumentation

Surveys foundational texts and contemporary research in argumentation. Analysis of distinctions between philosophical and rhetorical approaches to argument. Critical analysis of major theoretical and methodological traditions and topics with an emphasis on social dimensions of argument. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5320.

[College of Arts & Sciences](#) [Communication](#)

COMM-6360 (3) Social and Cultural Theory

Traces select traditions in social and/or cultural theory, emphasizing how these traditions affect and are affected by the field of rhetoric studies. Examines the origins and resolutions of major debates in social and/or cultural theory from a rhetorical perspective. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5320.

[College of Arts & Sciences](#) [Communication](#)

COMM-6410 (3) Discourse Analysis

Acquaints students with the main types of discourse analysis: conversation analysis, critical discourse analysis, and rhetorically-informed discourse approaches. Teaches how to conduct discourse analysis, including transcribing, selecting excerpts, documenting inferences, and linking to scholarly controversies. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Communication](#)

COMM-6420 (3) Interaction Analysis

Educates students in one of a selected set of methodological specializations used in the study of human interaction. May be repeated up to 6 total credit hours on different topics. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Communication

COMM-6435 (3) Interpersonal Processes in Communication

Focuses on key processes in interpersonal communication relevant to understanding interaction at the dyadic, group, and organizational levels. Examines theory and research on selected interpersonal processes such as facework/identity, support/emotional communication, relational communication, and conflict in interaction. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Communication

COMM-6440 (3) Grounded Practical Theory

Examines theory, method, and application of grounded practical theory, an approach to building normative theory through description, critique, and theoretical reconstruction of situated communication practices. Semester project involves analysis of a sample of discourse from a public or field observation setting. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5210.

College of Arts & Sciences Communication

COMM-6445 (3) Communication and Culture

Focuses on cultural diversity in human communication. There are two main objectives: to acquaint students with classic and contemporary readings that articulate the relationship between communication and culture, and to introduce them to methodologies they can use to develop a cultural approach toward a variety of observable forms and practices of communication. Prereq., COMM 5425.

College of Arts & Sciences Communication

COMM-6450 (3) Group Interaction Facilitation and Pedagogy

Examines theory, research, and practice associated with facilitating group interaction processes (e.g., group creation, conflict communication management, conversation and discussion, task accomplishment, and team communication), including facilitation associated with teaching an introductory group interaction course. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5420. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6470 (3) Meetings, Their Practices and Problems

Explores the history, routine communicative practices, common interactional troubles, cross-cultural differences, and expectations about "Ideal" communicative conduct for workplace and public meetings. Seminar project involves field study of a meeting group. Prereq., graduate standing or instructor consent. Recommended prereq., Comm 6030.

College of Arts & Sciences Communication

COMM-6730 (3) Collaboration and Decision Making in Organizations

Explores theory and research on communication processes associated with collaboration and decision making in contemporary organizations, particularly as they are influenced by participation programs, technology, and team structures. Prereq., graduate standing or instructor consent. Recommended prereqs., COMM 5620 and 6010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6740 (3) Theory and Philosophy of Organizing and Organizations

Reviews theory and philosophy of organizations and organizing where communication processes are seen as constitutive. Focuses on discursive and material practices in the formation and change of organizational structure, culture, and operation. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5620.

College of Arts & Sciences Communication

COMM-6750 (3) Communication and Organizational Change

Addresses the role of communication in cultural change efforts in organizations. Topics include the nature and function of organizational cultures, the role of leadership, ethical issues, and member involvement in change processes. Specific organizational cases are highlighted throughout. Prereq., graduate standing or instructor consent. Recommended prereq., COMM 5620.

College of Arts & Sciences Communication

COMM-6780 (3) Roles, Relationships, and Identities in Interaction

Examines how social roles influence communication practices, the development of relationships, and the impact of relationships on identity. Considers these processes in contexts such as personal relationships and institutional settings. Topic varies. May be repeated up to 6 total credit hours on different topics. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Communication

COMM-6840 (1-3) Master's Independent Study

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

COMM-6940 (1) Master's Degree Candidate

COMM-6950 (1-6) Master's Thesis

COMM-8840 (1-6) Doctoral Independent Study

May be repeated up to 18 total credit hours.

COMM-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.



Courses

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COMR

COMR-1000 (1) Communication and Community

Introduction to how communication builds community by creating and sharing meaning. Examination of communication practices at the interpersonal level (friends and family), the group level (teams, classrooms and organizations) and the societal level (citizenship, social change, mass media). Restricted to students in the Communication Residential Academic Program.

[College of Arts & Sciences](#) [Communication Residential Academic Program](#)

COMR-1100 (1) RAP Community Leadership Practicum

Examines relationships between competent communication and effective leadership in the context of the Communication and Society RAP. Upon completion of the Community Leadership RAP practicum, the student will be able to identify, discuss, demonstrate, and critique effective communication skills as they apply to many different leadership opportunities within the RAP. Restricted to students in the Communication Residential Academic Program.

[College of Arts & Sciences](#) [Communication Residential Academic Program](#)

COMR-1800 (3) Visual Literacy: Images and Ideologies

Explores the relationship between visual images and cultural values, including how we process visual information, the evolution of conventions in various media, common visual portrayals, and ethical issues. Restricted to students in the Communication Residential Academic Program. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Communication Residential Academic Program](#)



Courses

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Subject **Number**

CSCI

CSCI-1000 (1) Computer Science as a Field of Work and Study

Introduces curriculum, learning techniques, time management and career opportunities in Computer Science. Includes presentations from alumni and others with relevant educational and professional experience.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-1220 (4) Virtual Worlds: An Introduction to Computer Science

Introduces the fundamental principles of computer science using an on-line virtual world called Second Life as the "Laboratory" for the course. Students will learn how to program by creating objects of interest in Second Life. In-class and in-world discussions and readings will introduce the student to important ideas and concepts that shape the field of computer science. Same as ATLS 1220.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-1240 (3) The Computational World

Introduces and explores the "Computational style of thinking" and its influence in science, mathematics, engineering and the arts. The course does not focus on the nuts and bolts of any particular programming language, but rather on the way in which computing has affected human culture and thought in the past half century. Same as ATLS 1240.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-1300 (4) Computer Science 1: Programming

Teaches techniques for writing computer programs in higher level programming languages to solve problems of interest in a range of application domains.

College of Engineering & Applied Science Computer Science General Computer Science

CSCI-2270 (4) Computer Science 2: Data Structures

Studies data abstractions (e.g., stacks, queues, lists, trees) and their representation techniques (e.g., linking, arrays). Introduces concepts used in algorithm design and analysis including criteria for selecting data structures to fit their applications. Prereqs., CSCI 1300, and one of APPM 1350 or MATH 1300. Prerequisites: Requires pre-requisite courses of CSCI 1300 and either APPM 1350 or MATH 1300 (minimum grade C-).

College of Engineering & Applied Science Computer Science General Computer Science

CSCI-2400 (4) Computer Systems

Covers how programs are represented and executed by modern computers, including low-level machine representations of programs and data, an understanding of how computer components influence performance and memory hierarchy. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science Computer Science General Computer Science

CSCI-2824 (3) Discrete Structures

Covers foundational materials for computer science that is often assumed in advanced courses. Topics include set theory, Boolean algebra, functions and relations, graphs, propositional and predicate calculus, proofs, mathematical induction, recurrence relations, combinatorics, discrete probability. Focuses on examples based on diverse applications of computer science. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-2830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the sophomore level. Content varies from semester to semester.

College of Engineering & Applied Science Computer Science General Computer Science

CSCI-2900 (1-3) Lower Division, Undergraduate Level Independent Study

Offers selected topics at the elementary level for students with little or no previous computing experience.

College of Engineering & Applied Science Computer Science General Computer Science

CSCI-3002 (3) Human-Centered Computing Foundations

Introduces practice and research in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-3104 (4) Algorithms

Covers advanced data structures, computational geometry, cryptography, dynamic programming, greedy algorithms, divide-and-conquer, graph algorithms (e.g., depth-first search), network algorithms (e.g., shortest paths), approximation algorithms. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-3112 (1-3) Human-Centered Computing Professional Development

Supports students in developing professional skills and practices in human-computer interaction, design of interactive systems, computer supported cooperative work, computer supported collaborative learning, educational technology, tools that support creativity, user-developed knowledge collections, and gaming. May be repeated up to 10 total credit hours. Same as ATLS 3112.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-3155 (4) Principles of Programming Languages

Study fundamental concepts on which programming of languages are based, and execution models supporting them. Topics include values, variables, bindings, type systems, control structures, exceptions, concurrency, and modularity. Learn how to select a language and to adapt to a new language. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

College of Engineering & Applied Science Computer Science Programming Languages

CSCI-3202 (3) Introduction to Artificial Intelligence

Surveys artificial intelligence techniques of search, knowledge representation and reasoning, probabilistic inference, machine learning, and natural language processing. Introduces artificial intelligence programming. Prerequisites: Requires pre-requisite course of CSCI 2824 (minimum grade C-).

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-3287 (3) Database and Information Systems

Surveys data management, including file systems, database management systems design, physical data organizations, data models, query languages, concurrency, and database protection. Prereq., CSCI 3104. Prerequisites: CSCI 3287 PREREQ

College of Engineering & Applied Science Computer Science Database Systems

CSCI-3302 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-3308 (3) Software Engineering Methods and Tools

Focuses on software engineering methods and tools for application development, including design and system organization; using and creating reusable libraries; building, testing, and debugging; and performance evaluation. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

College of Engineering & Applied Science Computer Science Software Engineering

CSCI-3434 (3) Theory of Computation

Introduces the foundations of formal language theory, computability, and complexity. Shows relationship between automata and various classes of languages. Addresses the issue of which problems can be solved by computational means, and studies complexity of solutions. Prereq., CSCI 3104 and 3155. Prerequisites: Requires pre-requisite courses of CSCI 3104 and CSCI 3155 (minimum grade C-).

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-3656 (3) Numerical Computation

Covers development, computer implementation, and analysis of numerical methods for applied mathematical problems. Topics include floating point arithmetic, numerical solution of linear systems of equations, root finding, numerical interpolation, differentiation, and integration. Prereqs., two semesters of calculus, linear algebra, and either CSCI 1200 or 1300.

College of Engineering & Applied Science Computer Science Numerical Computation

CSCI-3702 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the

linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problems, nature versus nurture, conceptual structure and metaphor, logic/problem solving, and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and PSYC 3005.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

CSCI-3753 (4) Operating Systems

Examines software comprising computing systems as it builds upon hardware to provide a programming environment. Looks at structure and function of editors, compilers/assemblers, linkers, etc. Basic operating systems concepts and systems programming in high-level languages. Prereqs., CSCI 2700 and 2400 or ECEN 3350. Prerequisites: Requires pre-requisite courses of CSCI 2270 and either CSCI 2400 or ECEN 3350 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-4000 (3) Entrepreneurship in Computing

Examines the development of new venture creation from the entrepreneur's perspective. Provides an understanding of the entire process including opportunity identification, feasibility study, fundraising, organization, team creation, and exit strategies through case studies, oral and written presentations, and outside speakers. Taught by an experienced entrepreneur. Prereq., CSCI 2270. Restricted to juniors/seniors.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-4113 (3) Unix System Administration

Introduces UNIX (Linux) system administration and related topics, including trouble-shooting system and network problems, hardware and software configuration and installation, basic scripting, and security aspects of Internet hosts. Students build a Linux server from the ground up, using provided computing resources, and must maintain and secure the server themselves. Prereqs., CSCI 2270 or instructor consent. Recommended prereq., CSCI 3308. Prerequisites: Requires pre-requisite course of CSCI 2270 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-4123 (3) Network Laboratory

Develops enterprise level design and configuration skills on local area networking via switching and routing, as well as the provisioning of remote data communications across diverse Wan technologies, using the latest available transport and security services. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5460. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-4133 (3) Security Laboratory

Allows students to gain practical experience with network security in a simulated network environment. Topics to be covered include system hardening, firewalls, intrusion detection, vulnerability assessment, and investigation. Prereq., CSCI 4273. Credit not granted for this course and TLEN 5540. Prerequisites: Requires pre-requisite course of CSCI 4273 (minimum grade C-).

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CSCI

CSCI-4143 (2) Principles of Telecommunications Policy

Learn the key issues and principles that guide the decisions of policymakers with respect to the regulatory treatment of voice, video, and data communications. Engage in critical debate, and develop instincts for anticipating the likely regulatory models that may be applied to new technologies. This introductory course covers technical, economic, legal, political, and institutional considerations. Coreq., CSCI 4123 or 4133. Same as TLEN 5210 Prerequisites: Requires pre-requisite or co-requisite course of CSCI 4123 or CSCI 4133 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-4202 (3) Artificial Intelligence 2

Second course in artificial intelligence. Topics may vary, but typically cover neural networks, natural language processing, and artificial life. Prereq., CSCI 3202 or instructor consent.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

CSCI-4229 (3) Computer Graphics

Studies design, analysis, and implementation of computer graphics techniques. Topics include interactive techniques, 2D and 3D viewing, clipping, segmentation, translation, rotation, and projection. Also involves removal of hidden edges, shading, and color. Prereqs., knowledge of basic linear algebra and CSCI 2270. Same as CSCI 5229.

[College of Engineering & Applied Science](#) [Computer Science](#) [Graphics](#)

CSCI-4239 (3) Advanced Computer Graphics

Studies design, analysis and implementation of advanced computer graphics techniques. Topics include shaders, using the GPU for high performance computing, graphics programming on embedded devices such as mobile phones; advanced graphics techniques such as ray tracing. Prereq., CSCI 4229 or instructor consent required. Same as CSCI 5239.

College of Engineering & Applied Science Computer Science Graphics

CSCI-4273 (3) Network Systems

Focuses on design and implementation of network programs and systems, including topics in network protocols, file transfer, client-server computing, remote procedure call, and other contemporary network system design and programming techniques. Prereqs., CSCI 3753 or equivalent, and familiarity with C and Unix. Same as CSCI 5273.

College of Engineering & Applied Science Computer Science Operating Systems and Hardware

CSCI-4302 (3) Advanced Robotics

Exposes students to current research topics in the field of robotics and provides hands-on experience in solving a grand challenge program. Prereq., CSCI 3302 or instructor consent required. Same as CSCI 5302.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-4308 (4) Software Engineering Project 1

Advanced practicum in which students design, implement, document and test software systems for use in industry, non-profits, government and research institutions. Also offers extensive experience in oral and written communication throughout the software lifecycle. Students must take CSCI 4308 and 4318 contiguously, as the project spans the entire academic year. Prereqs., successful completion of a minimum of 36 credit hours of Computer Science Foundation, Track Foundation, Track Core, Computer Science electives, and WRTG 3030. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Computer Science (CSCI) majors or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Software Engineering

CSCI-4312 (3) Health Informatics

Teaches students essential skills necessary for developing usable assistive and performance support systems, which include consideration of the academic and professional interdisciplinary issues that govern the work. An overview of ongoing and emerging topics in medical informatics will be presented. Prereq., CSCI 2270. Recommended prereq., CSCI 3002. Same as CSCI 5312.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-4314 (3) Algorithms for Molecular Biology

Surveys combinatorial algorithms used to understand DNA, RNA, and proteins. Introduces students to methods used to process genomic data. Topics covered include a review of algorithms and molecular biology, sequence analysis, RNA and protein structure analysis, and comparative genomics. Students will get hands-on experience processing recent genomic data. Prereqs., CSCI 2270 and CSCI 3104, or CHEM 4711, or MCDB3500 or Iphy 4200. Same as CSCI 5314 and MCDB 4314.

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-4317 (3) Genome Databases: Mining and Management

Develops essential skills for performing genomic analyses, with focus on developing practical research tools. Introduces human genome and microbiome projects, Python/SQL scripting, accessing and understanding genomic data, sequence alignment and search, evolutionary models, expression data, biological networks, and macromolecular structure. Prereqs., MCDB 3500, CSCI 3104, or CHEM 4711; coreq., CSCI 2270. Same as CSCI 5317. Credit not granted for this course and CHEM 4621 or MCDB 4621.

College of Engineering & Applied Science Computer Science Database Systems

CSCI-4318 (4) Software Engineering Project 2

Second semester of an advanced practicum in computer science. Students must take CSCI 4308 and 4318 contiguously as the project spans the entire academic year. Prereq., CSCI 4308.

College of Engineering & Applied Science Computer Science Software Engineering

CSCI-4342 (3) Groupware and Workflow Systems

Supports students in developing professional skills and knowledge concerning the use of computer technologies to support collaborative activities. Also covers the impact of digital collaboration technologies on users, groups, organizations and society. Students will gain practical experience with Business Process Management and the use of Workflow Management Systems. Same as CSCI 5342.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-4412 (3) Design, Creativity, and New Media

Explores the design of new media and technologies to support design and creativity. Analyzes design and creativity as human activities of fundamental importance in the networked information culture and economy. Provides theoretical and practical analysis of new media. Instructor consent required. Recommended prereq., CSCI 3002. Instructor consent required. Same as CSCI 5412.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-4446 (3) Chaotic Dynamics

Explores chaotic dynamics theoretically and through computer simulations. Covers the standard computational and analytical tools used in nonlinear dynamics and concludes with an overview of leading-edge chaos research. Topics include time and phase-space dynamics, surfaces of section, bifurcation diagrams, fractal dimension, and Lyapunov exponents. Prereqs., two semesters calculus, CSCI 1200, 1300 or equivalent, and PHYS 1110. Recommended prereqs., PHYS 1120, CSCI 3656, and MATH 3130. Same as CSCI 5446 and ECEN 4423. Prerequisites: Requires pre-requisite course of CSCI 1200 or 1300 and PHYS 1110 (minimum grade C-).

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-4448 (3) Object-Oriented Analysis and Design

An applied analysis and design class addressing the use of object-oriented techniques. Topics include domain modeling, use cases, architectural design, and modeling notations. Students apply the techniques in analysis and design projects. Prereq., CSCI 3155 or expertise in one or more object-oriented programming languages, such as C++ or Java. Same as CSCI 5448.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CSCI-4502 (3) Data Mining

Introduces basic data mining concepts and techniques for discovering interesting patterns hidden in large-scale data sets, focusing on issues relating to scalability and efficiency. Topics covered include data preprocessing, data warehouse, association, classification, clustering, and mining specific data types such as time-series, social networks, multimedia, and Web data. Prereq., CSCI 2270 or instructor consent. CSCI 4502 and 5502 are the same course.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

CSCI-4555 (3) Compiler Construction

Introduces the basic techniques used in translating programming languages: scanning, parsing, definition table management, operator identification and coercion, code selection and register allocation, error recovery. Students build a complete compiler for a simple language. Prereqs., CSCI 2400 or ECEN 3350 and CSCI 2824. Same as ECEN 4553 and CSCI 5525.

[College of Engineering & Applied Science](#) [Computer Science](#) [Programming Languages](#)

CSCI-4576 (4) High-Performance Scientific Computing

Introduces computing systems, software, and methods used to solve large-scale problems in science and engineering. Students use high-performance workstations and a supercomputer. First course in a two-semester sequence. Recommended prereq., CSCI 3656. Same as CSCI 5576.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-4586 (4) High-Performance Scientific Computing 2

Introduces computing systems, software, and methods to solve large-scale problems in science and engineering. Students use high-performance workstations and a supercomputer. Second course in a two-semester sequence. Prereq., CSCI 4576.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Numerical Computation](#)

CSCI-4593 (3) Computer Organization

Studies computer design at the gate level. Discusses instruction set architecture design, arithmetic and logic unit design, control logic, memory design and caches, simple pipelining, I/O, and peripheral devices. Briefly covers aspects of modern computer architecture, such as multicore processors and cache coherence for these. Prereq., ECEN 3350 and ECEN 2350. Same as ECEN 4593. Prerequisites: Requires pre-requisite courses of ECEN 2350 and ECEN 3350 (minimum grade C-). Restricted to Electrical Engineering (EEEN), Electrical and Computer Engineering (ECEN) Computer Science (CSEN), Engineering Physics (EPEN) or Applied Mathematics (APPM).

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Operating Systems and Hardware](#)

CSCI-4753 (3) Computer Performance Modeling

Presents a broad range of system measurement and modeling techniques, emphasizing applications to computer systems. Topics include system measurement, work load characterization, and analysis of data; design of experiments; simulation; and queuing theory and queuing network models. Prereq., CSCI 3753 or equivalent, and second-semester calculus. Recommended prereq., a course in statistics. Same as CSCI 5753 and ECEN 4753/5753.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Operating Systems and Hardware](#)

CSCI-4809 (3) Computer Animation

Develops a firm understanding of the general principles of computer animation. Lectures cover the creation of models, materials, textures, surfaces, and lighting. Path and key frame animation, particle dynamics, and rendering are introduced. Students are assigned a number of animation tutorials to carry out. CSCI 4809/5809 and ATLS 4809/5809 are all the same course.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Graphics](#)

CSCI-4810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [General Computer Science](#)

CSCI-4830 (1-3) Special Topics in Computer Science

Covers topics of interest in computer science at the senior undergraduate level. Content varies from semester to semester. May be repeated up to 9 total credit hours.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-4839 (3) User-Centered Design

Develops the skills and practices necessary to apply user-centered approaches to software requirements analysis, and the design and evaluation of computer applications. Same as CSCI 5839.

[College of Engineering & Applied Science](#) [Computer Science](#) [Graphics](#)

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CSCI

CSCI-4900 (1-3) Upper Division, Undergraduate Level Independent Study

Provides opportunities for independent study at the upper-division undergraduate level. Students work on a small research problem or tutor lower-division computer science students. Prereq., CSCI 1200 or 1300.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-4950 (2-4) Senior Thesis

Provides an opportunity for senior computer science majors to conduct exploratory research in computer science. Prereqs., successful completion of a minimum of 36 credit hours of Computer Science Foundation, Track Foundation, Track Core, and Computer Science electives, and WRTG 3030. Restricted to seniors. May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-5229 (3) Computer Graphics

Same as CSCI 4229. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Graphics](#)

CSCI-5239 (3) Advanced Computer Graphics

Prereq., CSCI 5229. Restricted to graduate students only. Same as CSCI 4239. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Graphics](#)

CSCI-5273 (3) Network Systems

Same as CSCI 4273. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Operating Systems and Hardware

CSCI-5302 (3) Advanced Robotics

Exposes students to current research topics in the field of robotics and provides hands-on experience in solving a grand challenge program. Prereq., CSCI 3302 or instructor consent required. Same as CSCI 4302.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5312 (3) Health Informatics

Same as CSCI 4312. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5314 (3) Algorithms for Molecular Biology

Same as CSCI 4314 and MCDB 5314. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5317 (3) Genome Databases: Mining and Management

Same as CSCI 4317. Credit not granted for this course and CHEM 5621 or MCDB 5621. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Database Systems

CSCI-5342 (3) Groupware and Workflow Systems

Same as CSCI 4342. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5412 (3) Design, Creativity, and New Media

Same as CSCI 4412. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Artificial Intelligence

CSCI-5417 (3) Information Retrieval Systems

Addresses practical issues in the design, implementation and analysis of modern information retrieval systems. The major focus is on Web-based applications including ad hoc retrieval, classification, and clustering. Introduces the use of open source retrieval systems, standard evaluation metrics and gold-standard evaluation collections. Formerly CSCI 7000. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Database Systems

CSCI-5444 (3) Introduction to Theory of Computation

Reviews regular expressions and finite automata. Studies Turing machines and equivalent models of computation, the Chomsky hierarchy, context-free grammars, push-down automata, and computability. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5446 (3) Chaotic Dynamics

Same as CSCI 4446 and ECEN 5423. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Numerical Computation

CSCI-5448 (3) Object-Oriented Analysis and Design

Same as CSCI 4448. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Software Engineering

CSCI-5454 (3) Design and Analysis of Algorithms

Techniques for algorithm design, analysis of correctness and efficiency; divide and conquer, dynamic programming, etc. Advanced data structures, algorithms in graph theory, geometry, Vlsi, linear algebra, etc. Lower bounds, Np-completeness, intractability. Prereqs., CSCI 2270 or equivalent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science | Computer Science | Theory of Computation

CSCI-5473 (3) Applied Operating Systems

Examines design and implementation of contemporary operating systems. Significant laboratory component applies practice with OS use, analysis, and internal design. Topics include OS organization and structure, process and thread management, memory management, file management, device management, network and distributed systems, and modern runtime systems. Prereq., two years programming and instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-5502 (3) Data Mining

Introduces basic data mining concepts and techniques for discovering interesting patterns hidden in large-scale data sets, focusing on issues relating to scalability and efficiency. Topics covered include data preprocessing, data warehouse, association, classification, clustering, and mining specific data types such as time-series, social networks, multimedia, and Web data. Prereq., CSCI 2270 or instructor consent. CSCI 4502 and 5502 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

CSCI-5525 (3) Compiler Construction

Offers practical experience using state-of-the-art CAD tools on high-performance workstations. Provides skills needed to rapidly create little languages for specific problem domains and familiarizes students with automated software development. Prereqs., CSCI 2824 or ECEN 3703 and CSCI 2400 or ECEN 2120. Same as ECEN 5523 and CSCI 4555. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Programming Languages](#)

CSCI-5535 (3) Fundamental Concepts of Programming Languages

Considers concepts common to a variety of programming languages--how they are described (both formally and informally) and how they are implemented. Provides a firm basis for comprehending new languages and gives insight into the relationship between languages and machines. Prereq., CSCI 3155, or instructor consent. Same as ECEN 5533. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Programming Languages](#)

CSCI-5548 (3) Software Engineering of Standalone Programs

Applies engineering principles to phases of software product development, project planning, requirements definition, design, implementation, validation, and maintenance. Emphasizes practical methods for communicating and verifying definitions and designs---prototyping, inspections, and modeling. Includes relation to RTS and object-oriented programming. Prereqs., CSCI 1300, CSCI 2270, or instructor consent. Same as ECEN 5543. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CSCI-5551 (3) Parallel Processing

Examines a range of topics involved in using parallel operations to improve computational performance. Discusses parallel architectures, parallel algorithms and parallel programming languages. Architectures covered include vector computers, multiprocessors, network computers, and data flow machines. Prereq., background in computer organization, introduction to programming languages, elementary numerical analysis, ECEN 4593 and CSCI 3656, or instructor consent. Same as ECEN 5553. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Parallel Processing](#)

CSCI-5573 (3) Advanced Operating Systems

Intended to create a foundation for operating systems research or advanced professional practice. Examines the design and implementation of a number of research and commercial operating systems and their components, system organization and structure, threads, communication and synchronization, virtual memory, distribution, file systems, security and authentication, availability, and Internet services. Prereqs., CSCI 3753, 4593, equivalent undergraduate coursework in operating systems and computer architecture, or instructor consent. Same as ECEN 5573. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-5576 (4) High-Performance Scientific Computing

Same as CSCI 4576. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-5582 (3) Artificial Intelligence

Surveys artificial intelligence methods, theories, and applications. Studies the relationship between artificial intelligence and psychology, linguistics, and philosophy. Introduces artificial intelligence programming. Prereq., CSCI 3155 or equivalent. Same as ECEN 5583. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

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Courses

Search by College, Department & Category

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Subject Number

CSCI

CSCI-5593 (3) Advanced Computer Architecture

Provides a broad-scope treatment of important concepts in the design and implementation of high-performance computer systems. Discusses important issues in the pipelining of a machine and the design of cache memory systems. Also studies current and historically important computer architectures. Prereq., CSCI 4593 or instructor consent. Same as ECEN 5593. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Operating Systems and Hardware](#)

CSCI-5606 (3) Principles of Numerical Computation

Highlights computer arithmetic, solution of linear systems, least-squares approximations, nonlinear algebraic equations, interpolation, and quadrature. Prereqs., CSCI 3656 and three semesters of calculus, or equivalent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Numerical Computation](#)

CSCI-5608 (3) Software Project Management

Presents topics and techniques critical to the management of software product development, including estimating, planning, quality, tracking, reporting, team organization, people management, and legal issues. Gives special attention to problems unique to software projects. Prereqs., ECEN 4583, CSCI 5548 and 4318, or equivalent industrial experience. Same as ECEN 5603 and EMEN 5031. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) | [Computer Science](#) | [Software Engineering](#)

CSCI-5622 (3) Machine Learning

Trains students to build computer systems that learn from experience. Includes the three main subfields: supervised learning, reinforcement learning and unsupervised learning. Emphasizes practical and theoretical understanding of the most widely used algorithms (neural networks, decision trees, support vector machines, Q-learning). Covers connections to data mining and statistical modeling. A strong foundation in probability, statistics, multivariate calculus, and linear algebra is highly recommended. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-5636 (3) Numerical Solution of Partial Differential Equations

Focuses on finite difference solution for partial differential equations, methods of SoR, ADI, conjugate gradients, finite element method, nonlinear problems, and applications. Prereqs., CSCI 5606. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Numerical Computation

CSCI-5646 (3) Numerical Linear Algebra

Offers direct and iterative solutions of linear systems. Also covers eigen value and eigenvector calculations, error analysis, and reduction by orthogonal transformation. A sound knowledge of basic linear algebra, experience with numerical computation, and programming experience is required. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Numerical Computation

CSCI-5654 (3) Linear Programming

Presents algorithms, simplex, and modifications. Examines theory---duality and complementary slackness. Involves network flow algorithms. Introduces integer programming. Prereq., linear algebra. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-5673 (3) Distributed Systems

Examines systems that span multiple autonomous computers. Topics include system structuring techniques, scalability, heterogeneity, fault tolerance, load sharing, distributed file and information systems, naming, directory services, resource discovery, resource and network management, security, privacy, ethics, and social issues. Recommended prereqs., CSCI 5573 or a course in computer networks. Same as ECEN 5673. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Operating Systems and Hardware

CSCI-5714 (3) Formal Languages

Explores context-free languages: pumping lemma and variants, closure properties, and decision properties. Involves parsing algorithms, including general and special languages, e.g., LR. Additional topics chosen by instructor. Prereq., CSCI 5444 or instructor consent.

Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Theory of Computation](#)

CSCI-5722 (3) Computer Vision

Explores algorithms that can extract information about the world from images or sequences of images. Topics covered include: imaging models and camera calibration, early vision (filters, edges, texture, stereo, optical flow), mid-level vision (segmentation, tracking), vision-based control, and object recognition. Recommended prereq., probability, multivariate calculus, and linear algebra. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

CSCI-5753 (3) Computer Performance Modeling

Same as CSCI 4753. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-5809 (3) Computer Animation

Same as CSCI 4809 and ATLS 4809/5809. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Graphics](#)

CSCI-5817 (3) Database Systems

Provides an advanced treatment of basic database concepts. Prereq., CSCI 2270. Recommended prereq., CSCI 3287 and 3753. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Database Systems](#)

CSCI-5828 (3) Foundations of Software Engineering

Explores techniques, languages, and tools for development and maintenance of software systems. Topics include specification languages, configuration modeling, testing techniques, process modeling, program annotations, and program proofs. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CSCI-5832 (3) Natural Language Processing

Explores the field of natural language processing as it is concerned with the theoretical and practical issues that arise in getting computers to perform useful and interesting tasks with natural language. Covers the problems of understanding complex language phenomena and building practical programs. Prereq., graduate standing or instructor consent. Same as LING 5832. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-5839 (3) User-Centered Design

Restricted to graduate students or instructor consent. Same as CSCI 4839. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Graphics

CSCI-5900 (1-6) Master's Level Independent Study

Provides opportunities for independent study at the master's level. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science General Computer Science

CSCI-5919 (3) Human-Computer Interaction: Survey and Synthesis

Examines interdisciplinary field of human-computer interaction through a comprehensive content and historical survey. Considers new trajectories of inquiry and how the field merges with others. "Social computing" is emphasized as a central topic. Students across disciplines will find the course foundational for understanding human-centered technology matters, including computer scientists; social scientists; and business and media arts students. Recommended prereq., CSCI 4839 or 5839. Prerequisites: Restricted to graduate students or Computer Science Concurrent Degree majors only.

College of Engineering & Applied Science Computer Science Graphics

CSCI-5929 (3) Human-Computer Interaction: Survey and Synthesis 2

Studies recent advances in human-computer interaction through critical analysis of influential papers and self-guided research. Examines new paradigms in input, output, and visualization for technology design and interaction. Considers innovative methods to assess various population design and technological needs. Studies in computer-related fields, social science, business, media arts, and communications benefit learning about human-centered computing research. Recommended prereq., CSCI 5919.

College of Engineering & Applied Science Computer Science Graphics

CSCI-6000 (1) Introduction to the Computer Science PhD Program

Instructs new Ph.D students in Computer Science how to obtain a Ph.D and how to become an effective member of the computer science research community. Makes students aware of formal requirements, educational objectives, and research themes. Provides evaluative

criteria and guidelines for all objectives to be achieved. Restricted to new Ph.D students in Computer Science. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science General Computer Science

CSCI-6268 (3) Foundations of Computer and Network Security

Studies methods to protect information, and the ability to process and move information, from theft, misuse, tampering, destruction, and unauthorized access. Introduces foundational topics of computer and network security, including security models, cryptography, and authentication protocols. Prereq., CSCI 5273. Same as TLEN 5550. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Software Engineering

CSCI-6302 (3) Speech Recognition and Synthesis

Introduction to automatic speech recognition and understanding, conversational agents, dialogue systems, and speech synthesis/text-to-speech. Topics include the noisy channel model, Hidden Markov Models, A* and Viterbi decoding, language modeling (N-grams, entropy), concatenative synthesis, text normalization, dialogue and conversation modeling. Prereqs., CSCI 5582 or 5832, or LING 5200, and graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-6402 (3) Issues and Methods in Cognitive Science

Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Includes philosophy of mind; learning; categorization; vision and mental imagery; consciousness; problem solving; decision making, and game-theory; language processing; connectionism. Prereqs., graduate standing, or at least one course at the 3000-level or higher in computer science, linguistics, philosophy, or psychology. No background in computer science will be presumed. Same as EDUC 6504, LING 6200, PHIL 6310, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-6454 (3) Advanced Algorithms

Topics include matching and network flows, matroids, computational geometry, parallel computation (PRAM, hypercube, mesh). Also includes Vlsi, database theory, distributed computation, cryptography, robotics, scheduling, probabilistic algorithms, approximation algorithms, average case, and amortized analysis, time permitting. Prereq., CSCI 5454. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-6622 (3) Advanced Machine Learning

Covers advanced theoretical and practical topics in machine learning and latest developments in the field. Students conduct original

research, either applied or theoretical, and present their results. Prereq., CSCI 5622 or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

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Subject **Number**

CSCI

CSCI-6676 (3) Numerical Methods for Unconstrained Optimization

Looks at modern computational methods for solution of unconstrained optimization problems, nonlinear leastsquares, and systems of nonlinear equations. Techniques for building algorithms to solve problems with special structure. Prereq., CSCI 5606. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-6686 (3) Numerical Methods for Constrained Optimization

Covers computational methods for constrained optimization. Topics include basic theory, methods for quadratic programming, active set strategies for linear constraints, and penalty and successive quadratic programming methods for nonlinearly constrained problems. Prereq., CSCI 5606. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Numerical Computation](#)

CSCI-6800 (1-6) Master of Engineering Project

Students seeking the master of engineering degree must complete a creative investigation project, including a written report, supervised by a member of the graduate faculty. Prereq., completion of 21 hours towards the ME degree. Prerequisites: Restricted to graduate student Computer Sciences students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-6810 (1) Seminar in Computational Biology

Provides an overview of current research topics in computational biology and health informatics, with a focus on research conducted on campus. Each week students will attend an on-campus seminar or a presentation by an on-campus research group. Prepares students to

participate in a research project. Prereqs., CSCI 4312 or 4314 or 4317. CSCI 4810 and 6810 are the same course.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-6940 (1) Master's Degree Candidacy

For students who need to be registered for the purpose of taking the master's comprehensive exam and who are not otherwise registered. Credit does not count toward degree requirements. Graded on a pass/fail basis. Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Computer Science (CSEN) graduate students only or Computer Science Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-7000 (1-4) Current Topics in Computer Science

Covers research topics of current interest in computer science that do not fall into a standard subarea. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-7111 (3) Topics in Parallel Processing

Content varies, but subjects include parallel machine architecture, parallel algorithms, languages for parallel computation, and applications. Takes subject matter from current research. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Parallel Processing](#)

CSCI-7123 (3) Topics in Operating Systems

Topics selected by instructor. Possible topics are system design, measurement and evaluation, simulation, mathematical modeling, and parallelism. Prereq., CSCI 5573. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Operating Systems and Hardware](#)

CSCI-7135 (3) Topics in Programming Languages

Topics selected by instructor. Possible topics are syntax, semantics, metacompilers, compiler design, and translator writing systems.

Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Programming Languages

CSCI-7143 (3) Topics in Computer Systems

Topics selected by instructor. Possible topics are online systems, multiprocessing, microprogramming, architecture, data communications, and computing networks. May be repeated up to 6 total credit hours. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Operating Systems and Hardware

CSCI-7154 (3) Topics in Theory of Computation

Selected topics of current interest in theory of computation. Prereq., CSCI 5454. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Theory of Computation

CSCI-7176 (3) Topics in Numerical Computation

Topics selected by instructor. Possible topics are numerical linear algebra, solution of differential equations, nonlinear algebra and optimization, data fitting, linear and nonlinear programming, and solution of large problems. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Numerical Computation

CSCI-7212 (3) Topics in Symbolic Artificial Intelligence

Topics vary from year to year. Possible topics include search; knowledge representation and natural language understanding; deduction, planning, problem solving, and automatic programming; instruction and cognitive models; vision and speech; and learning, induction, and concept formation. Prereq., CSCI 5582 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-7222 (3) Topics in Nonsymbolic Artificial Intelligence

Topics vary from year to year. Possible topics include human and machine vision, signal and speech processing, artificial life, mathematical foundations of connectionism, and computational learning theory. Prereq., CSCI 5622 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-7412 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for graduate students pursuing a joint Ph.D in an approved core discipline and cognitive science. Projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students should obtain commitments from two mentors for their project. Prereqs., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereqs., CSCI7762 or EDUC 6505 or LING 7762 or PSYC 7765. Same as LING 7415, PSYC 7415, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-7422 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Ph.D in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSYC 7415 or CSCI 7412 or EDUC 6506. Same as PSYC 7425, LING 7425, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-7717 (3) Topics in Database Systems

Studies topics such as distributed databases, database interfaces, data models, database theory, and performance measurement in depth. Prereq., CSCI 5817 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Database Systems

CSCI-7762 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint Ph.D in cognitive science. Prereq., graduate standing. Same as EDUC 6505, LING 7762, and PSYC 7765. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-7772 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, PSYC 7775, EDUC 7775, SLHS 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Computer Science Artificial Intelligence

CSCI-7782 (3) Topics in Cognitive Science

Addresses a different set of one to three topics each year. For each topic, one or two faculty members of the Institute of Cognitive Science present background material and current research. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Artificial Intelligence](#)

CSCI-7818 (3) Topics in Software Engineering

Studies selected topics of current interest in software engineering. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [Software Engineering](#)

CSCI-7900 (1-6) Doctoral Level Independent Study

For doctoral students.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

CSCI-8990 (1-10) Doctoral Dissertation

Investigates some specialized field of computer science. Approved and supervised by faculty members. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Computer Science](#) [General Computer Science](#)

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Courses

Search by College, Department & Category

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Subject **Number**

CSVC

CSVC-1000 (1) Work Internship

a one credit pass/fail course, opened to students in good academic standing, whose internship employers require that they receive course credit. The student must first seek to obtain academic credit through their major department. Will not count toward degree requirements in any UCB school or college. No appeals for credit toward degrees or for letter grades in the course will be entertained.

[College of Arts & Sciences](#) [Career Services](#)



Courses

Search by College, Department & Category

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All

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CVEN

CVEN-1317 (2) Introduction to Civil and Environmental Engineering

Surveys the broad subject of civil and environmental engineering and professional practice. Includes the subdisciplines of structures, water resources, geotechnics, transportation, environment, and construction. Discusses professional ethics, important skills for engineers, and the engineering design process as it fulfills multiple objectives.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Miscellaneous](#)

CVEN-2012 (3) Introduction to Geomatics

Observes, analyzes, and presents basic linear, angular, area, and volume field measurements common to civil engineering endeavors with application of GPS and GIS technology. Prereq., APPM 1350 or equivalent. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Surveying and Transportation](#)

CVEN-2121 (3) Analytical Mechanics 1

Covers forces acting on rigid bodies at rest. Equilibrium is the central concept that will be applied repeatedly to different situations. In each case, the object of interest will be isolated along with all the forces acting on it; a free body diagram. Equilibrium will be applied to analyze trusses, frames, machines, cables and hydrostatic forces on dams. Prereq., PHYS 1110. Prereq. or coreq., APPM 2350. Same as GEEN 3851. Restricted to freshmen or sophomore Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

[College of Engineering & Applied Science](#)
[Civil Engineering](#)
[Mechanics](#)

CVEN-3022 (3) Construction Surveying

Studies construction and highway surveying, horizontal and vertical curves, earthwork, and analysis of data. Prereq., CVEN 2012.

College of Engineering & Applied Science Civil Engineering Surveying and Transportation

CVEN-3032 (3) Photogrammetry

Familiarizes students with characteristics of aerial photographs. Measures and interprets aerial photos for planimetric, topographic, hydrological, soil, and land use surveys. Analyzes and presents field measurements over extensive reaches. Prereq., instructor consent.

College of Engineering & Applied Science Civil Engineering Surveying and Transportation

CVEN-3111 (3) Analytical Mechanics 2

Studies the motion (kinematics) of particles and rigid bodies, and the forces that cause the motion (kinetics). Newton's laws as well as energy methods are used to study the motion of particles and rigid bodies in two and three dimensions. Prerequisites: Requires pre-requisite courses of CVEN 2121. Requires a co-requisite course of APPM 2360.

College of Engineering & Applied Science Civil Engineering Mechanics

CVEN-3161 (3) Mechanics of Materials 1

Addresses concepts of stress and strain; material properties, axial loading, torsion, simple bending, and transverse shear; analysis of stress and strain; and deflections of beams. Includes selected experimental and computational laboratories. Prereq., CVEN 2121. Coreq., APPM 2360. Restricted to Architectural or Civil Engineering majors only. Credit not granted for this course and MCEN 2063. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Mechanics

CVEN-3227 (3) Probability, Statistics and Decision

Introduces uncertainty based analysis concepts and applications in the planning and design of civil engineering systems emphasizing probabilistic, statistics, and design concepts and methods. Restricted to juniors/seniors.

College of Engineering & Applied Science Civil Engineering Miscellaneous

CVEN-3246 (3) Introduction to Construction

Broad view of concerns, activities, and objectives of people involved in construction: the owner, architect/engineer, contractor, labor, and inspector. Interactive gaming situation relates these people to the construction contract, plans/specifications, estimates/bids, scheduling, law, and financial management. Restricted to junior or senior Civil or Architectural Engineering majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN) or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-3256 (3) Construction Equipment and Methods

Integrated study of construction equipment, methods, and economics. Topics include equipment productivity, equipment selection, and construction engineering design within economic constraints. Examples include earthmoving, concrete formwork, and temporary construction. Recommended prereq., CVEN 3246. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Restricted to Architectural (AREN) or Civil (CVEN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Construction

CVEN-3313 (3) Theoretical Fluid Mechanics

Basic principles of fluid mechanics. Covers fluid properties, hydrostatics, fluid flow concepts, including continuity, energy, momentum, dimensional analysis and similitude, and flow in closed conduits. Prereq., CVEN 2121. Prerequisites: Requires pre-requisite course of CVEN 2121 (or GEEN 3851, or ASEN 2001, or MCEN 2023).

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

CVEN-3323 (3) Hydraulic Engineering

Studies hydraulic engineering theory and applications. Topics include incompressible flow in conduits, pipe system analysis and design, open channel flow, flow measurement, analysis and design of hydraulic machinery. Prereq., CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil, Environmental, or Architectural Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3313 (or MCEN 3021, or GEEN 3853, or AREN 2120). Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (ARCH) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Fluid Mechanics & Water Resour

CVEN-3414 (3) Fundamentals of Environmental Engineering

Emphasizes chemical, ecological, and hydrological fundamentals and importance of mass and energy balances in solving environmental engineering problems related to water quality, water and wastewater treatment, air pollution, solid and hazardous waste management, sustainability, and risk assessment. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351) and APPM 1360 (or MATH 2300). Restricted to Civil, Architectural, Environmental, Mechanical or Chemical Engineering majors only.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-3424 (3) Water and Wastewater Treatment

Introduces design and operation of facilities for treatment of municipal water supplies and wastewater. Provides an engineering application of physical, chemical, and biological unit processes and operations for removal of impurities and pollutants. Involves an integrated design of whole treatment systems combining process elements. Prereq., CVEN 3414. Prerequisites: Requires pre-requisite

course of CVEN 3414 (min grade C-).

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-3434 (3) Introduction to Applied Ecology

Emphasizes the integration of physical, chemical, and biological processes in controlling terrestrial and aquatic ecosystems. Ecosystem concepts are applied to current environmental and water quality problems. Includes field trips and a group project. Same as ENVS 3434. Prerequisites: Requires pre-requisite courses of CHEN 1211 and CHEM 1211 (or CHEM 1113 and CHEM 1114 or CHEM 1251 or CHEM 1351). Restricted to students with 57-180 credits (Junior or Senior) Civil (CVEN), Environmental (EVEN) or Architectural Engineering (AREN) majors.

College of Engineering & Applied Science Civil Engineering Environmental

CVEN-3525 (3) Structural Analysis

Studies structural analysis of statically determinate and indeterminate systems, deflections, energy methods, and force method. Prereq., CVEN 3161 or MCEN 2063. Restricted to Architectural or Civil Engineering majors only. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Structures

CVEN-3602 (3) Transportation Systems

Introduces technology, operating characteristics, and relative merits of highway, airway, waterway, railroad, pipeline, and convey or transportation systems. Focuses on evaluation of urban transportation systems and recent transportation innovations. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Surveying and Transportation

CVEN-3698 (3) Engineering Geology

Highlights the role of geology in engineering minerals; rocks; surficial deposits; rocks and soils as engineering materials; distribution of rocks at and below the surface; hydrologic influences; geologic exploration of engineering sites; mapping; and geology of underground excavations, slopes, reservoirs, and dam sites. Includes field trips.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-3708 (3) Geotechnical Engineering 1

Studies basic characteristics of geological materials; soil and rock classifications; site investigation; physical, mechanical, and hydraulic properties of geologic materials; the effective stress principle; soil and rock improvement; seepage analysis; stress distribution; and consolidation and settlement analyses. Selected experimental and computational laboratories. Prereq., CVEN 3161 or MCEN 2063. Prerequisites: Requires pre-requisite course of CVEN 3161 or MCEN 2063. Restricted to Civil (CVEN), Environmental (EVEN), or

Architectural (AREN) Engineering majors only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-3718 (3) Geotechnical Engineering 2

Discusses shear strength, bearing capacity, lateral earth pressures, slope stability, and underground construction. Analyzes and looks at the design of shallow and deep foundations, retaining walls, tunnels, and other earth and rock structures. Selected experimental and computational laboratories. Prereq., CVEN 3708. Prerequisites: Requires pre-requisite course of CVEN 3708 (minimum grade C-). Restricted to College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Geotechnical

CVEN-4087 (3) Construction Contract Administration

Students will develop a working understanding of the various types of contracts, key contract provisions, how to evaluate contract risk, ethical requirements, and most importantly explore effective contract administration. Construction and engineering contracts are at the core of all project relationships. Through lecture, group dialog and case studies students will develop confidence in their ability to assess, understand and deploy contract administration in a construction setting. Prereq., senior standing in civil or architectural engineering or instructor consent.

College of Engineering & Applied Science Civil Engineering Miscellaneous

CVEN-4147 (3) Civil Engineering Systems

Theory and application of the principles of engineering economics, and classical and metaheuristic optimization techniques for evaluating problems in civil and environmental engineering. Same as CVEN 5147. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science Civil Engineering Miscellaneous

CVEN-4161 (3) Mechanics of Materials 2

Covers advanced topics in the mechanics of solids. Some topics such as asymmetric bending of beams, torsion of non-circular cross-sections etc. are extensions of topics seen in CVEN 3161. Others like buckling and plate bending theory are new. The course presents unifying themes that underlie the study of mechanics. The course includes selected laboratory experiments. Prereq., CVEN 3161. Prerequisites: Requires pre-requisite course of CVEN 3161 (min grade C-).

College of Engineering & Applied Science Civil Engineering Mechanics

CVEN-4323 (3) Water Resource Engineering Design

Design of urban water supply, wastewater, and supply stormwater management system, with demand management as an option. Exploration of the feasibility of recycling and reuse of treated wastewater and stormwater. Prereqs., CVEN 3227 and 4147. Same as

CVEN 5423.

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Fluid Mechanics & Water Resour](#)

CVEN-4333 (3) Engineering Hydrology

Studies engineering applications of principles of hydrology, including hydrologic cycle, rainfall and runoff, groundwater, storm frequency and duration studies, stream hydrography, flood frequency, and flood routing. Prerequisites: Requires pre-requisite course of CVEN 3313 (or AREN 2120 or CHEN 3200 or GEEN 3853 or MCEN 3021; all min grade C-). Requires co-requisite course of CVEN 3227 (or APPM 4570 or MCEN 3037).

[College of Engineering & Applied Science](#) [Civil Engineering](#) [Fluid Mechanics & Water Resour](#)

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CWCV

CWCV-2000 (3) The Western Tradition

Encourages a historical and critical investigation into the formative influences on what is often called Western culture, including religious, political, social and economic factors, and contemporary interpretations and critiques of these developments and concepts. Designed as the foundation course for the Center for Western Civilization. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Arts & Sciences Special Courses](#)



Courses

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DNCE

DNCE-1000 (2) Beginning Technique

Introduces basic concepts and skills of various contemporary dance forms, such as Afro-modern, Release Technique, Limon-based modern, etc. Classwork develops muscle strength, flexibility, coordination, rhythm, and dynamic and spatial awareness. Lectures focus on various aspects of dance including history, composition, anatomy and criticism. Limited amount of written work is required. May be repeated up to 4 credit hours.

[College of Arts & Sciences](#) [Theater & Dance](#) [Nonmajor Technique](#)

DNCE-1012 (2) Dance Production 1

Provides the dancer with an introduction to the types of performance venues available today, and their technical systems and equipment. It will also establish an awareness of how technical theatre design arts may be utilized by a choreographer. Restricted to dance majors. Credit not granted for this course and DNCE 2012. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Production](#)

DNCE-1013 (2) Dance Improvisation

An opportunity for students to develop skills of dance improvisation through the exploration of structured movement problems. Students study selected contemporary dance artists whose work stresses improvisation in performance and/or as a training vehicle. Restricted to dance majors. Formerly DNCE 2013. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Creative Process](#)

DNCE-1017 (3) Dance and Popular Culture

Explores and contextualizes contemporary popular culture and dance. Introduces methods of critical analysis that reveal the rich heritage hidden within and around the dances students commonly encounter at the club, on the street, on television, on the big screen and elsewhere in everyday life. Through watching, reading, and discussion, students discover new meaning in their lived cultural experience. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

DNCE-1020 (1) Beginning Modern Dance with Experience

Studio course that continues the work from the beginning level on basic concepts and skills in modern dance technique to increase strength, flexibility, and coordination. May be repeated up to 2 total credit hours. Prereq., DNCE 1000.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1027 (3) Introduction to Dance and Culture

Explores dance's relationship to broad cultural realities such as food getting, sexuality, rites of passage, work, and religion. Topics are explored by looking at several different cultural groups and how their dance functions in relation to the specific topic. (For example, dance as a function of religion could be studied through explorations into Afro-Cuban orisha dances, Bharata Natyam, and Hopi Ghost dancing.) Formerly DNCE 1029. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

DNCE-1091 (1) Modern 1

Introduces basic skills of modern dance. In-class technique work increases muscle strength, flexibility, and coordination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-1100 (1) Beginning Ballet

Ballet for beginners; no previous experience required. Stretching, basic barre, simple terre a terre, and jumping steps are learned, as well as alignment and basic extended positions such as arabesque and attitude. Mastery of simple enchainements and rhythmic patterns. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1120 (1) Beginning Ballet with Experience

Extension of beginning ballet, when basic concepts of ballet have been mastered. Enchainements are of greater complication and variety. Dance vocabulary is more extensive. Pirouettes and more complex musical phrases are expected. May be repeated up to 2 total credit hours. Prereq., DNCE 1100.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1190 (1) Ballet 1

Beginning ballet covering the basic vocabulary of classical ballet technique. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1200 (1) Beginning Jazz Dance

Introduces various styles of movement unique to jazz dance. Students learn fundamental technical dance skills as well as specific jazz vocabulary. Designed for students with little or no dance experience. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1220 (1) Beginning Jazz with Experience

Further develops work begun in Beginning Jazz. Exercises and jazz dance phrases are more complex. May be repeated up to 2 total credit hours. Prereq., DNCE 1200.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1290 (1) Jazz 1

Introduces jazz dance, consisting of a technique warm-up, locomotion across the floor, and a series of dance phrases developed into a short dance combination. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Nonmajor Technique

DNCE-1849 (1-3) Independent Study

Involves creative or scholarly investigation of an area of interest to the student not addressed in the curriculum. Work must be arranged with and advised by a faculty member. Freshman level course. May be repeated up to 7 total credit hours. Same as DNCE 2849, 3849, 4849, 5849.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-1901 (1-3) Technique Practicum

Offers special courses in the technique series. Includes world dance and/or social dance forms. May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-1908 (1) Performance Practicum

Students learn and perform a dance choreographed by a faculty member or graduate student for an informal and/or formal presentation. May be repeated up to 3 total credit hours. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

DNCE-2005 (3) Movement Awareness and Injury Prevention for the Dancer

Helps dancers understand the prevention and care of common injuries associated with their art. Through various somatic methods, techniques, anatomy, and kinesiology, students learn to reduce tension, improve body usage, and enhance their performance. Prereqs., DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Movement Analysis

DNCE-2014 (2) Rhythmic Analysis and Accompaniment

Emphasizes elements of rhythm in relation to dance. Experiences with rhythmic drills, rhythmic notation, and percussion accompaniment for the modern dance class comprise the body of the course. Prereqs., DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Music

DNCE-2021 (2) Major Technique

Enrollment by audition only. May be repeated up to 16 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2033 (3) Beginning Composition

Introduces the basic elements of dance composition through compositional studies evolved from readings, discussion, and improvisation.

Prereq., DNCE 1013 and DNCE 2021, 3041, or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-2091 (1) Modern 2

Continuation of Modern 1. a developmental sequence of modern dance technique designed to refine the technical/expressive skills required of the professional dancer. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2098 (1) Performance/Repertory

Students learn and perform dances from the repertory of guest artists. Offered summers only. May be repeated up to 3 total credit hours.

College of Arts & Sciences Theater & Dance Performance

DNCE-2101 (1) Pointe

Addresses the basic training for the art of dancing "Sur les pointes." Students will learn how to prepare technically, how to take care of the foot and ankle, and will be encouraged to address their personal alignment issues. An historical survey of the development of the pointe technique from the Romantic Age to the present will be discussed and students will be encouraged to attend local ballet performances and/or watch videos of works of both classical and contemporary ballets. May be repeated up to 4 total credit hours. Recommended prereqs., DNCE 3161 or DNCE 4181.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2141 (1) Low Intermediate Ballet

All basic ballet steps should have been mastered, including pirouettes en d'hors and en dedans, knowledge of the principles and placement, and the ability to master simple enchainements. May be repeated up to 2 total credit hours. Prereq., DNCE 1120.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2191 (1) Ballet 2

Intermediate ballet, covering the complete vocabulary of classical ballet technique. Enchainements are of complex structure. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.



Courses

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DNCE

DNCE-2290 (1) Jazz 2

Continuation of Jazz 1. Studies coordination, rhythm, style, and advanced body part isolation in depth. Offered summers only at Perry-Mansfield Performing Arts Camp. May be repeated up to 2 total credit hours.

[College of Arts & Sciences](#) [Theater & Dance](#) [Nonmajor Technique](#)

DNCE-2501 (2) African Dance

Explores the technique, style, and rhythms of various African, Caribbean, and dance forms of the Americas. Music, history, anthropology, and folklore help to enhance the dance and provide a cultural experience. May be repeated up to 6 total credit hours within a term. Same as ETHN 2502.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

DNCE-2701 (2) Contact Improvisation 1

Contact Improvisation is the practice of spontaneously generating movement guided by moment-to-moment physical contact and sharing of weight between two or more dancers. Fundamental skills of contact improvisation will be introduced; rolling, falling, giving and taking weight, use of momentum, and gravity. Skills are developed in both duets and larger groups. Similar to DNCE 4013.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

DNCE-2849 (1-3) Independent Study

Same as DNCE 1849, at the sophomore level.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-2901 (1-3) Technique Practicum 2

Offers second level classes in the technique series. Topics or forms of dance will include world dance forms and/or social dance forms. May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-2909 (1-4) Special Topics

Explores topics and research in relation to areas such as technology, environment, teaching methods, performance, world dance, arts in society, and/or criticism that the normal sequence of offerings may not allow. May be repeated up to 7 total credit hours. Same as DNCE 4909 and 5909 at the sophomore level.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-3001 (2) Intermediate/Advanced Modern Dance

More in-depth study of modern dance concepts. Class technique work more advanced. May be repeated up to 4 total credit hours. Prereq., DNCE 1000 or 1020 or any major technique class ending in "1". No audition required. Formerly DNCE 3040.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3024 (2) Musical Resources for Dance

Surveys basic musical notation and terminology, elements and forms of music, and historical styles, supported by guided listening to representative works within western musical tradition. Special emphasis on 20th century techniques and on the relationship of various music to dance. Prereq., DNCE 2014. Restricted to dance majors. Prerequisites: Restricted to Dance (DBFA) majors only.

College of Arts & Sciences Theater & Dance Music

DNCE-3041 (2) Major Technique

Designed for dance majors. Enrollment by audition only. May be repeated up to 16 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3043 (3) Intermediate Dance Composition

Opportunity for students to increase knowledge and understanding of dance composition elements as they relate to group forms, theme, development, and phrase manipulation. Prereqs., DNCE 2033 and DNCE 2021, 3041 or 4061. Restricted to dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-3101 (1-3) Ballet Practicum

Practical studio training in ballet at the advanced/professional level with a professional company. May be repeated up to 4 total credit hours. Prereq., DNCE 2141, 3161, or 4181. Designed for dance majors. Enrollment by audition only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3161 (1) Intermediate Ballet

Covers the general vocabulary of classical ballet technique and enchainements of medium complexity. Multiple pirouettes in all positions are required. Audition required. May be repeated up to 8 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3241 (1) Intermediate Jazz

Designed for the experienced jazz dancer. Includes dance techniques that further improve alignment, strength, flexibility, and coordination within the jazz idiom. Greater emphasis on style and rhythm and challenging dance combinations. May be repeated up to 2 total credit hours. Prereqs., DNCE 1200 and 1220. Formerly DNCE 2241.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3601 (2) Alexander Technique for Actors and Dancers

The Alexander Technique is a method for changing habits that impede the performance of movement and speech. Through class discussions, movement exploration, and individualized hands-on lessons, actors and dancers gain understanding of the technique and its benefits to performance. Restricted to theatre and dance majors. Prerequisites: Restricted to Dance (DNCE or DBFA) or Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3801 (2) Major Technique: Multiple Accompanists

Designed for dance majors. Encompasses range of dance forms that require multiple accompanists. Enrollment by audition only. May be repeated up to 16 total credit hours.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-3849 (1-3) Independent Study

Same as DNCE 1849, at the junior level.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-3901 (1-3) Technique Practicum

Offers special courses in the technique series. Topics or forms of dance will include world dance forms and/or social dance forms. May be repeated up to 6 total credit hours. Instructor consent may be required.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-4012 (1) Concert Production

Provides practical experience in producing formal and informal dance concerts. Introduces basic familiarity with production and promotional responsibilities, backstage and front-of-house duties and procedures. Prereq., DNCE 1012 or equivalent. Restricted to DNCE and DBFA majors. Same as DNCE 5012. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-4015 (3) Movement Analysis

Introduces Rudolf Laban's theories of movement and exposes several body therapies to heighten students' awareness of movement as a multifaceted (neuromuscular/spatial/dynamic) event. Emphasizes refinement of movement, observation skills, and improvement of performance. Prereq., DNCE 2005. Restricted to dance majors. Same as DNCE 5015.

College of Arts & Sciences Theater & Dance Movement Analysis

DNCE-4016 (3) Creative Dance for Children

Methods course for prospective teachers of creative dance for children. Lectures, readings, and laboratory experiences are followed by observation and teaching in primary grades. Prereqs., DNCE 1013 and 2033. Restricted to dance majors. Same as DNCE 5016. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-4017 (3) History and Philosophy of Dance

Follows the specific history and narrative of some dance forms (including African, Ballet, Flamenco, Hip Hop, Jazz, and Modern) and traces their development over time. Gives attention to the effect of social, political, economic, and environmental conditions as well as the influence of other dance forms and the impact of specific dance artists and teachers. Restricted to juniors and seniors. Same as DNCE 5017. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

DNCE-4023 (2) Performance Improvisation Techniques

Explores movement and vocal improvisational techniques to enhance creative and performance skills. Helps individuals discover and make accessible the diversity of the human instrument and develops practical tools to broaden expressive range. Same as DNCE 5023. Formerly DNCE 4018.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-4036 (3) Methods of Teaching Dance

Practical experience in teaching modern dance to the young adult follows theoretical grounding in specific teaching methods. Examines values and goals of dance in education and fundamental movement principles as related to the teaching of technique and improvisation. Prereqs., DNCE 1013 and 2033. Restricted to dance majors. Same as DNCE 5036. Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-4037 (3) Looking at Dance

Focuses on the development of perceptual, descriptive, and analytical skills as well as the ability to apply cultural and critical theory to 20th and 21st century concert dance. Specific pieces of choreography are looked at from a broad range of perspectives. Formerly DNCE 3027. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

DNCE-4038 (1-3) Dance Repertory

Learning and performing dances from the repertory of current faculty members, artists-in-residence, and upon occasion from the repertory of historic modern dancers. Dance majors may repeat up to 9 total credit hours with different instructors. Enrollment by audition only. Same as DNCE 5038.



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DNCE

DNCE-4053 (3) Advanced Dance Composition

In-depth approach to composition emphasizing personal invention, solo and group forms; styles based on historical art forms; exploration of the evaluative process. Prereqs., DNCE 3043 and DNCE 2021, 3041, or 4061. Restricted to dance majors. Same as DNCE 5053.

Prerequisites: Restricted to Dance (DNCE or DBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Creative Process](#)

DNCE-4061 (2) Major Technique

Designed for dance majors. Enrollment by audition only. May be repeated up to 16 total credit hours.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

DNCE-4128 (1) Pointe and Variation

For the more advanced classical ballet student. Entails working on pointe and learning dances from Classical, Romantic, and Neo-Classical ballets. Enrollment by audition only. May be repeated up to 2 total credit hours. Same as DNCE 5128.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

DNCE-4181 (1) Advanced Ballet

Advanced professional-level classical ballet, covering the complete vocabulary. Enchainements are of complex structure. Audition is required. May be repeated up to 8 total credit hours.

College of Arts & Sciences	Theater & Dance	Major Technique
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DNCE-4261 (1) Advanced Jazz Dance Technique

Opportunity for advanced dancers who want to expand their technical skills in the jazz form. Each class includes a standing warm up, floor work for strength and flexibility, adagio combination for line and balance, and a locomotor combination for turns, leaps, rhythm, and fast footwork. Emphasis is placed on technique, musicality, style, and performance. May be repeated up to 4 total credit hours. Same as DNCE 5261.

College of Arts & Sciences	Theater & Dance	Major Technique
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DNCE-4701 (2) Contact Improvisation 2

Build upon skills introduced in Beginning Contact Improvisation as we explore the creative possibilities of interacting with the weight of a partner. Emphasis will be placed upon ease and efficiency in partnering, and integrating this work into choreography and performance. Prereq., DNCE 2701. Same as DNCE 5701.

College of Arts & Sciences	Theater & Dance	Major Technique
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DNCE-4849 (1-3) Independent Study

Same as DNCE 1849, at the senior level.

College of Arts & Sciences	Theater & Dance	Independent Study
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DNCE-4909 (1-4) Special Topics

Same as DNCE 2909 and 5909.

College of Arts & Sciences	Theater & Dance	Independent Study
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DNCE-4919 (1-3) Dance Practicum

Project in dance under supervision of senior faculty. May be repeated up to 6 total credit hours. Same as DNCE 5919.

College of Arts & Sciences	Theater & Dance	Independent Study
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DNCE-4939 (1-3) Dance Internship

Provides an opportunity for upper-division dance majors to serve apprenticeships in the community in work areas related to their major interests and career goals. Internships are available in areas such as arts administration, dance therapy, and technical production. May be repeated up to 3 total credit hours. Prereqs., 30 credit hours in dance.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-5001 (2) Graduate Technique

Open only to graduate dance majors. May be repeated up to 12 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-5012 (1) Concert Production

Same as DNCE 4012.

College of Arts & Sciences Theater & Dance Production

DNCE-5015 (3) Movement Analysis

Restricted to graduate students. Same as DNCE 4015. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Movement Analysis

DNCE-5016 (3) Creative Dance for Children

Restricted to graduate students. Same as DNCE 4016 with addition of readings and a paper. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-5017 (3) History and Philosophy of Dance

Restricted to graduate students. Same as DNCE 4017 with addition of graduate papers and/or a project. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

DNCE-5023 (2) Performance Improvisation Techniques

Restricted to graduate students. Same as DNCE 4023 with the addition of written analysis and creative assignments. Formerly DNCE 5018. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-5036 (3) Methods of Teaching Dance

Restricted to graduate students in dance. Same as DNCE 4036 with addition of readings and a paper. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-5038 (1-3) Dance Repertory

Same as DNCE 4038 except graduate students are required to keep a log of the learning process involved in repertory to document and analyze each work in terms of stylistic differences, musical/sound accompaniment and trends. Dance majors may repeat up to 9 total credit hours with different instructors. Enrollment by audition only. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Performance

DNCE-5048 (1-4) Touring Dance Ensemble

May be repeated up to 8 total credit hours. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Performance

DNCE-5052 (1-3) Studio Concert

Restricted to dance majors with 87 credit hours or more. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Production

DNCE-5053 (3) Advanced Dance Composition

Same as DNCE 4053. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-5056 (2) Graduate Teaching Seminar

Examines practical and philosophical issues in dance education. The goals and content of professional and recreational dance training

are considered and strategies for effective teaching practice are discussed. Opportunity for practical application of theoretical material is provided. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Pedagogy](#)

DNCE-5064 (2) Music and Dance Seminar: Collaboration

Investigates selected aspects of rhythm, accompaniment, and musical resources for dance and applications to performance, choreography, and teaching. Topics may include movement analysis and rhythmic clarity, self-accompaniment, working with accompanist/composers, relationship of music to dance, and survey of 20th century compositional techniques. Prereq., dance/music experience, or instructor consent. Restricted to graduate students in dance. Prerequisites: Restricted to Dance graduate students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Music](#)

DNCE-5101 (1) Intermediate Graduate Ballet

Open only to graduate dance majors. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

DNCE-5128 (1) Pointe and Variation

By audition only. Students should have previous experience. Restricted to graduate students. May be repeated up to 2 total credit hours. Same as DNCE 4128.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

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DNCE

DNCE-5261 (1) Advanced Jazz Dance Technique

Same as DNCE 4261. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

DNCE-5601 (2) Alexander Technique for Graduate Students

Learn the principles of the Alexander Technique through class discussions, movement exploration, and individualized hands-on-lessons. Discover how to improve their overall functioning and learn to apply the technique to performance and teaching. Prerequisites: Restricted to Dance (DNCE-MFA) or Theatre (THTR or TBFA) graduate students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

DNCE-5701 (2) Contact Improvisation 2

Same as DNCE 4701.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

DNCE-5801 (2) Grad Technque: Multiple Accompanists

Open only to graduate dance majors. Encompasses range of dance forms that require multiple accompanists. May be repeated up to 12 total units. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Major Technique](#)

DNCE-5849 (1-3) Independent Study

Same as DNCE 1849 and DNCE 6849, at the graduate level.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-5901 (1-3) Graduate Technique Practicum

Offers special topics and styles in the graduate technique curriculum. Rotating foci include a variety of traditional dance forms from around the world as well as vernacular, recreational, and social dance phenomena indigenous to the U.S. Course meets simultaneously with an undergraduate studio course, and includes both the practical movement experience and scholarly study of specially-chosen issues in dance. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-5909 (1-4) Special Topics

Same as DNCE 2909 and 4909. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-5919 (1-3) Dance Practicum

Project in dance under supervision of senior faculty. May be repeated up to 6 total credit hours. Same as DNCE 4919. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6009 (1) Research Strategies and Techniques

Restricted to graduate students. Same as THTR 6009. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6016 (2) Teaching Lab: Modern Dance

Provides opportunity to apply principles and skills introduced in DNCE 5036. Participating students share the responsibility for teaching a lab class that meets twice a week. Focuses on analysis and evaluation of teaching skills. Restricted to graduate students.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-6017 (3) Readings in Dance

Surveys dance literature including an opportunity for graduate students to familiarize themselves with resources, current publications, theoretical materials, and professional organizations in dance. Restricted to graduate students in dance. Formerly DNCE 6019.

Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

DNCE-6047 (3) Seminar: Dance

Intensive study of selected topics related to the art of dance, dance criticism, dance aesthetics, and dance in relationship to historical, social, and cultural environments with an emphasis on contemporary American forms and their roots. Restricted to graduate students in dance.

College of Arts & Sciences Theater & Dance Dance and Cultural Studies

DNCE-6056 (2) Professional Development

Examines current trends, issues, and problems of dance at colleges, in secondary education, in the community, and in professional dance. Explores curriculum development and educational dance trends along with other topics such as freelance work, grant writing, and dance advocacy. Restricted to graduate students in dance. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Pedagogy

DNCE-6073 (3) Choreography

Covers in-depth practical and theoretical approaches to dance composition for graduate students; solo and group forms; and analysis of historical and contemporary dance works. May be repeated up to 6 total credit hours with different instructors. Restricted to graduate students in dance.

College of Arts & Sciences Theater & Dance Creative Process

DNCE-6101 (1) Advanced Graduate Ballet

Open only to graduate dance majors. May be repeated up to 6 total credit hours. Restricted to graduate students.

College of Arts & Sciences Theater & Dance Major Technique

DNCE-6849 (1-3) Independent Study

Involves creative or scholarly investigation of an area of interest to the student not addressed in the curriculum. Work must be arranged

with and advised by a faculty member. Graduate level course. Same as DNCE 5849.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6919 (1-3) Directed Studies

Explores advanced topics in dance not regularly covered in the curriculum of the graduate program. May be repeated up to 6 total credit hours. Restricted to graduate students.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6949 (1) Candidate for Degree

Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6959 (1-6) Master's Thesis

Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Independent Study

DNCE-6969 (3-6) The Graduate Project

Provides the opportunity for synthesizing the graduate experience through the execution of a project related to the student's major area of interest. Project must be approved by the graduate faculty advisor. Prerequisites: Restricted to Dance graduate students only.

College of Arts & Sciences Theater & Dance Independent Study

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Courses

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EALC

EALC-4911 (3) Practicum in Asian Languages 1

Introduces elementary or intermediate East Asian language, culture, and language pedagogy. Prereq., department approval.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#)

EALC-4912 (3) Practicum in Asian Languages 2

Introduces elementary or intermediate East Asian language, culture, and language pedagogy. Prereq., department approval.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#)

EALC-4913 (3) Practicum in Asian Languages 3

Introduces elementary or intermediate East Asian language, culture, and language pedagogy. Prereq., department approval.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#)

EALC-4914 (3) Practicum in Asian Languages 4

Introduces elementary or intermediate East Asian language, culture, and language pedagogy. Prereq., department approval.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#)

EALC-4930 (1-6) Internship

Selected students are matched with supervised internships in business, public and private service organizations, and educational institutions. Internships focus on opportunities to apply language and cultural skills. Students meet regularly with instructor and supervisor, keep a journal, and submit a final paper. May be repeated up to 6 total credit hours. Prereq., JPNS 2120 or CHIN 2120. Recommended prereq., JPNS 3120 or CHIN 3120.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#)



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EBIO

EBIO-1030 (3) Biology: A Human Approach 1

Lect. Studies the principles of biology and their implications. Central theme is humans and the environment, emphasizing ecology, natural resource conservation, and the interrelatedness of a growing human population. Recommended for nonscience majors. Meets MAPS requirement for natural science: non-lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-1040 (3) Biology: A Human Approach 2

Lect. Continues EBIO 1030, focusing on the function of the human body, and maintenance of dynamic equilibrium in the internal environment in the face of a continually changing external environment. Discusses factors influencing these homeostatic conditions and how and why they change. Recommended for nonscience majors. Prereq., EBIO 1030. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-1050 (1) Biology: A Human Approach Laboratory

One two-hour lab per week. Provides experiments and exercises relating to concepts presented in EBIO 1030 and 1040. Biology: a Human Approach 1 and 2. This course uses animals and/or animal tissues. Recommended for nonscience majors. When taken with EBIO 1030, meets MAPS requirement for natural science: lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-1210 (3) General Biology 1

Lect. Provides a concentrated introduction to molecular, cellular, genetic, and evolutionary biology. Emphasizes fundamental principles, concepts, facts, and questions. Intended for science majors. Credit not granted for this course and EPOB 2060,2660 or KAPH 2060. Approved for GT-SC1. Meets MAPS requirement for natural science. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1220 (3) General Biology 2

Provides a concentrated introduction to organisms, homeostasis, development, behavior, and ecology. Emphasizes fundamental principles, concepts, facts, and questions. Intended for science majors. Prereq., EBIO 1210 or equivalent. Credit not granted for this course and EPOB 2050 or 2650. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1230 (1) General Biology Laboratory 1

One 3-hour lab per week. Consists of experiments and exercises to provide an extension of basic concepts and scientific approaches presented in General Biology 1. Intended for science majors. Prereq. or coreq., EBIO 1210. Credit not granted for this course and EPOB 2060, 2660 or KAPH 2060. Meets MAPS requirement for natural science. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1240 (1) General Biology Laboratory 2

One 3-hour lab per week. Consists of experiments and exercises to provide an extension of basic concepts and scientific approaches presented in General Biology 2. Intended for science majors. Prereq. or coreq., EBIO 1220 or equivalent. Credit not granted for this course and EPOB 2050 or 2650. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1300 (1-3) Topics in Biological Sciences

Covers special topics in biology for freshmen or nonmajors. Introduces scientific methods and principles in biology, as well as issues of current interest in biology. Does not count toward the major in EBIO.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1840 (1-6) Independent Study (Freshman)

May be repeated up to 6 total credit hours.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-1950 (3) Introduction to Scientific and Academic Writing

Introduces students to academic writing and the associated discipline-specific conventions, styles, and qualities that are part of this type of writing. Classes lead students to think rhetorically, to understand the process of composing written text, to employ a variety of writing strategies, to conduct research, and to interpret, critique, summarize, and paraphrase scholarly texts. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2010 (1-3) Environmental Issues and Biology

Lect. Describes how the natural environment is currently stressed by a variety of human actions. Examines the nature of these environmental problems and their impact on living organisms, both human and nonhuman species.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2040 (4) Principles of Ecology

Lect. and lab. Introduces principles of ecology, emphasizing patterns and processes at various levels of biological organization. Scope global, but examples often from local environment. Laboratory emphasizes techniques of field biology. Uses animals and/or animal tissues. Prereqs., EBIO 1030, 1040, and 1050, or EBIO 1210, 1220, 1230, and 1240. Similar to ENVS 2000. Credit not granted for this course and EPOB 2050 or EPOB 2650 or EPOB 3020 or EBIO 2640 or ENVS 2000.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2070 (4) Genetics: Molecules to Populations

Lect. and rec. Covers principles of genetics and developmental biology at levels of molecules, cellular organelles, individuals, and populations; asexual and sexual life cycles; and heredity. Recitations allow discussion of genetics problems and implications of genetic principles, and provide demonstrations and simulations of genetic processes. Intended for sophomore majors in EBIO. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Credit not granted for this course and EBIO 2670.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2090 (3) Tropical Island and Marine Ecology

Examines fundamental concepts of marine ecology, emphasizing organismal diversity, species interactions, dispersal, colonization, physiology and adaptations. Includes study of beach and coral formation, island organisms and their population dynamics. Students may also register for an optional 1 credit, one week, tropical island and coral reef trip that complements the lecture portion of the class but has an additional cost. Recommended prereq., EBIO 1220.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2091 (1) Marine Ecology, Oceanography and Island Ecology Field Studies

A 1 credit, one week, tropical island and coral reef trip that complements the lecture portion of EBIO 2090 and ATOC 3070 with an additional cost. Examines fundamental concepts of marine ecology, emphasizing organismal diversity, species interactions, study of beach and coral formation, island formation, organisms and their population dynamics. Coreq., EBIO 2090 or ATOC/GEOL 3070. Recommended prereq., EBIO 1220.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2590 (3) Plants and Society

Acquaints students with the plants that are both essential and desirable to human survival, well-being, and quality of life. Topics include plants and world cultures, food plants, commercial products (beverages, extracts, herbs, and spices, etc.), cosmetics, textiles, wood products, medicinal plants, psychoactive plants, poisonous plants, plants used in horticulture and landscape architecture, wood products, musical instruments, etc.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2640 (5) Honors Principles of Ecology

Lect., lab, and rec. Introduces principles of ecology, emphasizing patterns and processes at various levels of biological organization. Scope global, but examples often from local environment. Lab emphasizes techniques of field biology. Uses animals and/or animal tissues. Prereqs., EBIO 1210, 1220, 1230, and 1240; or 1030, 1040, and 1050. Credit not granted for this course and EPOB 2050 or 2650 or 3020 or EBIO 2040.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-2840 (1-6) Independent Study (Sophomore)

May be repeated up to 6 total credit hours.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3010 (1-2) Teaching Biology

Provides an opportunity to assist in teaching of specific laboratory section in EBIO under direct faculty supervision. Students must make arrangements with the faculty member responsible for the course in which they plan to assist. May be repeated up to 4 total credit hours. Formerly EPOB 3010.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3040 (4) Conservation Biology

Applies principles of population ecology, population genetics, biogeography, animal behavior, and paleobiology to the maintenance of biodiversity and natural systems. The resulting theory is then applied to conservation policy and management techniques. Prereq., EBIO 2040 or 2640. Same as ENVS 3040.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3080 (4) Evolutionary Biology

Lect. and lab. Emphasizes the fundamental evolutionary concepts that provide explanations for the diversification of life on Earth. Specific topics include the evidence for evolution, adaptation by natural selection, speciation, systematics, molecular and genome evolution, and macroevolutionary patterns and processes. Recitations allow students to explore specific topics in more depth and smaller groups. Prereq., EBIO 1210 and 1220 or equivalent. Credit not granted for this course and EBIO 3680 or EPOB 2080 or 2680.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3110 (3) Population and Community Ecology

Presents principles of ecology that relate to the niche, population growth, metapopulations, population interactions (within and between trophic levels), community structure and development, landscape ecology and species diversity. Prereq., EBIO 2040 or 2640 or equivalent.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3170 (3-4) Arctic and Alpine Ecology

Lect. and field trips. Focuses on the biology of arctic and alpine environments, limiting physical factors (such as geomorphology and climatic history), and human interaction with cold-stressed environments, especially the arctic. Prereqs., EBIO 1210 and 1220, or EPOB 2050 and 2060.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3175 (1) Arctic and Alpine Ecology Lab

Examines alpine ecosystems and treeline relative to global change. Weekend (one-day) field trips into the Rocky Mountains, visits to Denver Museum of Nature and Science, and to CU herbarium/plant lab for experiential learning connected to EBIO 3170. Coreq., EBIO 3170. Formerly EPOB 3175. Pass/fail only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-3180 (3) Global Ecology

Lect. Involves study of ecological principles and problems at the biosphere level. Presents a worldwide approach to populations, biotic resources, ecologic interactions, land use, deforestation, desertification, species extinctions, pollution, environmental quality, global change, and environmental ethics. Prereqs., EBIO 1210 and 1220 or equivalent. Approved for arts and sciences core curriculum: natural science.

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EBIO

EBIO-3190 (3) Tropical Marine Ecology

Lect. Examines the biology and ecology of marine ecosystems, emphasizing those occurring in tropical regions such as coral reefs. Studies how these ecosystems are changing and the future impact of human stress on the marine environment. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-3240 (4) Animal Behavior

Lect. and lab. Topics include basic concepts and history, methods of study, ethical issues, neurobiology, behavior, the development of behavior, predator-prey relationships, communication, aggression and dominance, mating systems, cognitive ethology, and parental care. When possible, life-history strategies, the evolution of behavior, and behavioral ecology are stressed. Uses animals and animal tissues. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-3270 (3) Ecosystem Ecology

Integrates information from physics (e.g., energetics), chemistry (the behavior of basic elements), and biology (evolutionary traits of species, multiple photosynthetic pathways, etc.) to understand the structure and functioning of ecosystems. Provides the background and necessary information to understand controls on photosynthesis, decomposition, and nutrient cycling across diverse terrestrial and aquatic landscapes. Prereqs., EBIO 1210, 1220, 1230, 1240, and 2040, or EPOB 2050 and 2060, or EBIO 3020.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-3400 (4) Microbiology

Lect. and lab. Surveys distinguishing characteristics of microorganisms based on structural-functional relationships, taxonomy, growth, and physical-chemical agents of control including antibiotics, metabolism, and genetics. Introduces applied microbiology emphasizing infectious diseases, basic concepts of immunology, and microbial ecology. Uses animals and/or animal tissues. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3630 (4) Parasitology

Lect. and lab. Surveys animal parasites, including life histories; emphasizes parasites of humans. Uses animals and/or animal tissues. Prereqs., EBIO 1210, 1220, 1230, and 1240 or EPOB 2050 and 2060.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3680 (5) Honors Evolutionary Biology

Lect., rec., and co-sem. Emphasizes the fundamental evolutionary concepts that provide explanation for the diversification of life on Earth. Specific topics include the evidence for evolution, adaptation by natural selection speciation, systematics, molecular and genome evolution, and macroevolutionary patterns and process. Recitations allow students to explore specific topics in more depth and smaller groups. Prereqs., EBIO 1210, 1220, 1230, 1240, 2070 or 2670. Credit not granted for this course and EBIO 3080 or EPOB 2080 or 2680.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3770 (4) Animal Diversity: Vertebrates

Lect. and lab. Provides a broad overview of the biology of vertebrates: evolution and systematics, morphology, physiology, behavior, ecology, and biogeography. Laboratories focus on the diversity of vertebrates, including adaptations and diagnostic features of major groups. Uses animals and/or animal tissues. Prereqs., EBIO 1210, 1220, 1230, and 1240, or equivalent.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3840 (1-6) Independent Study (Junior)

May be repeated up to 6 total credit hours.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3850 (4) Animal Diversity: Invertebrates

Lect. and lab. Offers a broad study of the biology of the most diverse group of organisms on Earth. Areas include ecology, physiology, evolution and morphology of aquatic and terrestrial forms. This course uses animals and/or animal tissues. Prereqs., EBIO 1210, 1220, 1230, and 1240, or equivalent, or EPOB 2050 and 2060.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3870 (1-6) Independent Research (Junior)

May be repeated up to 6 total credit hours.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3930 (1-6) Internship

Provides an academically supervised opportunity for upper-division students to work in public or private organizations. Projects are usually related to students' career goals. Each project has both academic and work components. May be repeated up to 6 total credit hours. Pass/fail only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3940 (3) Argument in Scientific Writing

Emphasizes argumentative strategies used in scientific writing. Reviews essential writing skills to prepare students for academic and professional communication. Restricted to juniors and seniors. No biology credit for majors in EBIO. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3980 (1) Seminar: Introduction to EBIO Honors

Presents an introduction to the departmental Honors program. Consists of a lecture component on Honors research, thesis, and defense, as well as a seminar component where students present the findings of their library research, conducted under guidance of a faculty mentor, and hear presentations by graduating Honors candidates on their thesis research. Prereq., 3.2 or better GPA, declared EBIO major, and approval by departmental Honors program. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-3990 (1-3) Introduction to EBIO Honors

Provides an introduction to the departmental Honors program. Consists of individual library research on a potential Honors thesis topic under the guidance of a faculty mentor. Prereqs., 3.2 or better GPA declared EBIO major, and approval by departmental Honors

committee. Prerequisites: Restricted to Ecology and Evolutionary Biology (EBIO) majors only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4020 (3) Stream Biology

Offers a geological, physical, chemical, and biological study of flowing water with special reference to streams and rivers as ecosystems. A laboratory course is offered (see EBIO 4150). Prereqs., EBIO 1210, 1220, 1230, 1240, and 2040, or EPOB 2050 and 2060. Same as EBIO 5020.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4030 (3) Limnology

Examines the ecology of inland waters, including a detailed consideration of physical, chemical, and biological properties of freshwater ecosystems: origins and major characteristics of lakes and streams, survey of chemical and nutrient cycles in freshwater habitats, and survey of biotic composition of freshwater environments. Important themes in modern freshwater ecology are considered, including energy flow, trophic structure, eutrophication, and management of freshwater ecosystems. Prereqs., EBIO 1210 and 1220. Same as EBIO 5030.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4060 (3) Landscape Ecology

Studies distributional patterns of communities and ecosystems, ecological processes that affect those patterns, and changes in pattern and process over time. Consideration of spatial and temporal scales in ecological analyses is required to understand and predict response to broad-scale environmental change. Prereqs., EBIO 1210, 1220, 1230, 1240, and EBIO 2040 or 2640, or EPOB 2050 and 2060. Same as EBIO 5070.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4080 (4) Freshwater Phycology

Algae are a non-monophyletic group of organisms that play critical roles in ecosystem structure and function. They have a long history of being used in a variety of ways by the human species, but are increasingly being applied to modern issues of understanding water quality and climate change, engineering at the nano scale and in the production of renewable biofuels. Prereqs., EBIO 1210, 1220, 1230, and 1240. Restricted to students with 57-180 credits (Junior or Senior). Same as EBIO 5080.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4090 (2) Coral Reef Ecology

Includes one week of lectures in Boulder and one week of field studies on one of the most complex and beautiful ecosystems in the world, the Caribbean reefs at Cozumel, Mexico. Two week, fall-semester course beginning after Christmas. Prereqs., EBIO 2040 and Scuba certification. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4100 (3) Advanced Ecology

Emphasizes specific aspects of ecology based on specialties of faculty. One or more courses are offered most semesters. Topics have included dynamics of mountain ecosystems, tundra ecology, ethnoecology, population dynamics, tropical and insular biology, ecology of fishes, quantitative plant ecology, and arctic and alpine environments. May use animals and/or animal tissues. May be repeated twice provided the topics vary. Prereqs., EBIO 1210, 1220, 1230, 1240, and EBIO 2040 or 2640, or EPOB 2050 and 2060. Same as EBIO 5100.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4120 (2-4) Advanced Ecology

See EBIO 4100 for description. May use animals and/or animal tissues. Prereq., EBIO 1210, 1220, 1230, 1240, and EBIO 2040 or 2640, or EPOB 2050 and 2060. Same as EBIO 5120.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4140 (3) Plant Ecology

Examines the relationships between plants and their physical and biological environments, encompassing physiology, competition, plant-soil and plant-animal interactions, population dynamics, diversity, and influence on ecosystem function. Prereqs., EBIO 1210, 1220, 1230, and 1240.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4150 (1-2) Techniques in Ecology

Emphasizes application of modern ecological techniques, such as stream biology, aquatic biology, environmental measurement and control, and techniques in geocology. May be repeated up to 7 total credit hours. Prereqs., EBIO 1210, 1220, 1230, 1240, and EBIO 2040 or 2640, or EPOB 2050 and 2060. Same as EBIO 5150.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4160 (3) Introduction to Biogeochemistry

Covers fundamentals of biogeochemical cycling, emphasizing water, carbon, and nutrient dynamics in terrestrial ecosystems; chemical interactions of atmosphere, biosphere, lithosphere, and hydrosphere; and natural and human-managed environments. Prereqs., GEOL 3320 or EBIO 3270, and CHEM 1011 or higher. Same as ENVS 4160 and GEOL 4160.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4175 (3) The Scientific Basis for Ecosystem Management of Public Lands

An advanced field ecology course emphasizing measurements, statistical procedures, and biotic data information management relevant to land management issues. Develops concepts of adaptive ecosystem management using ongoing field studies on public land in the Colorado Front Range. Prereqs., EBIO 3270 and 3500.

College of Arts & Sciences Ecology & Evolutionary Biology

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EBIO

EBIO-4290 (3) Molecular Systematics and Evolution

Reviews principles and theoretical foundations of molecular evolution and molecular systematics. Emphasizes hypothesis testing and using various methods of analysis for interpreting molecular variation in nature. Prereq., EBIO 3080 or instructor consent. Same as EBIO 5290.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4350 (1-4) Biological Field Studies

Stresses broad areas of biology and employs field approaches. Uses animals and/or animal tissues. May be repeated up to 4 total credit hours. Prereqs., EBIO1210, 1220, 1230, and 1240, or E 2050 and 2060. Same as EBIO 5350.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4410 (4) Biometry

Lect. and lab. Offers a demanding, problems-oriented methods course in statistical inference procedures, assumptions, limitations, and applications emphasizing techniques appropriate to realistic biological problems. Includes data file management using interactive computing techniques. Prereqs., EBIO1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Restricted to juniors/seniors. Same as EBIO 5410. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4440 (4) Animal Developmental Diversity

Surveys development in a range of vertebrate and invertebrate systems to reconstruct the common bilaterian ancestor, and elucidate the developmental genetic changes underlying animal diversification. Lab focuses on vertebrate embryos and explores key methods in evolutionary developmental biology including in situ hybridization, embryo microinjection, and transgenesis. Prereqs., EBIO 1210, 1220 and 2070, or MCDB 1150 and 2150. EBIO 4440, EBIO 5440, MCDB 4441, and MCDB 5441 are all the same course.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4460 (1-5) Special Topics

Familiarizes students with specialized areas of biology. May be repeated up to 9 total credit hours. Prereqs., EBIO 1210, 1220, 1230, and 1240, or equivalent. Same as EBIO 5460.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4500 (4) Plant Biodiversity and Evolution

Lect. and lab. Surveys plant types emphasizing diagnostic features of plants in general and major taxa in particular. Focuses on identity, morphology, anatomy, reproduction, ecology, geography, evolution, fossil record, and economic use of taxa. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Formerly EBIO 3500.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4510 (4) Plant Anatomy and Development

Lect. and lab. Introduces structures of seed plants, especially angiosperms, and developmental history of these structures. Studies cell types, and their location and function in plant tissues and organs. The laboratory provides an opportunity to examine plant tissues and to prepare tissues for examination by the light microscope. Stresses role of plant structures in the living plant. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Formerly EBIO 3510.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4520 (4) Plant Systematics

Lect. and lab. Studies the principles and techniques of modern systematics of organisms, illustrated with examples from the plant kingdom, usually the angiosperms. Framework of course is evolutionary and ecological, as well as taxonomic. Prereq., EBIO 2070. Restricted to sophomores/juniors/seniors. Formerly EBIO 3520.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4530 (4) Functional Plant Biology

Lect. and lab. Explores mechanisms of plant functioning and how such functioning relates to the performance of the plant under different environmental conditions. Phenomena include water relations, growth and development, and metabolic processes including photosynthesis, respiration, and responses to stress. Prereqs., EBIO 1210, 1220, 1230, and 1240, or equivalent. Restricted to sophomores/juniors/seniors. Formerly EBIO 3530.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4550 (4) Plant Eco-Evo-Devo

Explores the fundamental principles of plant form from the perspectives of ecological function, evolutionary origin, and developmental dynamics. Students are presented with conceptual and analytical tools to interpret the vast diversity of growth form-function relationships that exist among plants. Laboratory sessions apply concepts presented in lecture and students will engage in original research using light and scanning electron microscopy. Prereqs., EBIO 1210, 1220, 1230 and 1240.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4640 (2-4) Plant Field Studies

Includes field-oriented courses offered at irregular intervals during the academic year or during summer sessions. May be repeated up to 7 total credit hours. Prereq., EBIO 2040 and 2640 or equivalent.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4660 (4) Insect Biology

Lect. and lab. Introduction to evolution, ecology, physiology, and behavior of insects. Emphasizes how insects have solved problems, such as maintaining water balance or finding food, that are shared by all animals but for which there may be unique solutions among the insects. Agricultural and human health problems relative to entomology are discussed. Uses animals and/or animal tissues. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Same as EBIO 5660.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4740 (3) Biology of Amphibians and Reptiles

Comparative morphology, taxonomy, ecology, behavior, and geographic distribution of amphibians and reptiles. This course uses animals and animal tissue. Prereqs., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Same as EBIO 5740 and PSYC 4740.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4750 (4) Ornithology

Lect., lab, and field trips. Presents origin, evolution, ecology, physical and behavioral characteristics, and taxonomy of orders and families of birds of North America; field work with local species emphasizing avian ecology. Uses animals and/or animal tissues. Prereq., EBIO 1210, 1220, 1230, and 1240, or EPOB 2050 and 2060. Same as EBIO 5750.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4760 (4) Mammalogy

Lect., lab, and field studies. Discusses origin, evolution and adaptation, geographic distribution, ecology, and taxonomy of mammals; field and laboratory study of Coloradan species. Uses animals and/or animal tissues. Prereq., EBIO 1210, 1220 and 2040 or 2640. Same as EBIO 5760.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4795 (3) Field Methods in Zoology and Botany

Class covers research and field methods for biological disciplines associated with natural history museums:vertebrates, invertebrates, and plants. Emphasis is on field research techniques: observations, sampling, collection and preservation methods, and comparisons among elevation zones. Includes 5 field labs, 2 weekend trips, 5 lab practica, experience with several taxonomic experts, and individual research projects. Same as EBIO 5795, MUSM 4795 and ENVS 4795.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4800 (3) Critical Thinking in Biology

Lect. and discussion. Explores controversial issues, historical themes, or emerging developments in biology. Consult the EBIO Undergraduate Advising Center for current listings. Different course sections on different topics may be repeated up to 12 total credit hours. Prereq., minimum of 14 hours of EBIO course work. Same as EBIO 5800. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4840 (1-6) Independent Study (Senior)

May be repeated up to 6 total credit hours. .

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4860 (1-2) Critical Thinking in Biology - Lab

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4870 (1-6) Independent Research (Senior)

May be repeated up to 6 total credit hours.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4980 (1) Seminar: EBIO Honors Thesis

To be taken during the final academic year prior to graduation. Consists of a lecture component on Honors thesis writing and defense, as well as a seminar component where Honors candidates present their thesis research in a practice defense talk. Prereq., 3.30 or better GPA, declared EBIO major, and approval by departmental honors committee.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-4990 (1-3) EBIO Honors Thesis

To be taken during the final academic year prior to graduation. Consists of the final phase of honors research and thesis preparation under the guidance of a faculty mentor. Prereq., 3.30 or better GPA, declared EBIO major, and approval by departmental honors committee. Prerequisites: Restricted to Ecology and Evolutionary Biology (EBIO) majors only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5000 (1) EBIO Colloquia

All first year EBIO graduate students are required to attend the EBIO Colloquia Series. Speakers from around the world and within the department cover topics in all areas of biology. May be repeated up to 2 total credit hours.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5020 (3) Stream Biology

Same as EBIO 4020.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5030 (3) Limnology

Same as EBIO 4030. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

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EBIO

EBIO-5060 (3) Landscape Ecology

Same as EBIO 4060. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-5080 (4) Freshwater Phycology

Algae are a non-monophyletic group of organisms that play critical roles in ecosystem structure and function. They have a long history of being used in a variety of ways by the human species, but are increasingly being applied to modern issues of understanding water quality and climate change, engineering at the nano scale and in the production of renewable biofuels. Same as EBIO 4080. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-5100 (3) Advanced Ecology

Same as EBIO 4100. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-5120 (2-4) Advanced Ecology

Same as EBIO 4120.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-5150 (1-2) Techniques in Ecology

Same as EBIO 4150.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5240 (3) Advanced Topics in Animal Behavior

Covers special areas of ethology such as sociobiology, animal communication, cognitive ethology, human ethology, moral and ethical issues. Prereq., EBIO 3240.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5290 (3) Molecular Systematics and Evolution

Same as EBIO 4290. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5310 (3) Ecology and Conservation

Reviews current research activities in the various fields of environmental biology, including population, community, behavioral, ecosystem, and landscape ecology, plus conservation biology and global change. Prereq., graduate standing.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5320 (3) Current Topics in Evolutionary Biology

Examines six major themes on contemporary evolutionary research: population genetics, natural selection and adaptation, molecular evolution, evolution and development, phylogenetic systematics, and macroevolution. Emphasizes recent primary literature and sophisticated mastery. Prereq., graduate standing in EBIO.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5350 (1-4) Biological Field Studies

Same as EBIO 4350.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5410 (4) Biometry

Same as EBIO 4410.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5440 (4) Animal Developmental Diversity

Surveys development in a range of vertebrate and invertebrate systems to reconstruct the common bilatorian ancestor, and elucidate the developmental genetic changes underlying animal diversification. Lab focuses on vertebrate embryos and explores key methods in evolutionary developmental biology including in situ hybridization, embryo microinjection, and transgenesis. Prereqs., EBIO 1210, 1220 and 2070, or MCDB 1150 and 2150. EBIO 4440, EBIO 5440, MCDB 4441, and MCDB 5441 are all the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5460 (1-5) Special Topics

Same as EBIO 4460. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5570 (3) Advanced Plant Physiology

Same as EBIO 4570.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5660 (4) Insect Biology

Same as EBIO 4660. . Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5740 (3) Biology of Amphibians and Reptiles

Same as EBIO 4740 and PSYC 5740.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5750 (4) Ornithology

Same as EBIO 4750.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5760 (4) Mammalogy

Same as EBIO 4760. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5795 (3) Field Methods in Zoology and Botany

Same as EBIO 4795 and MUSM 5795. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5800 (3) Critical Thinking in Biology

Same as EBIO 4800. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5820 (2-3) Graduate Writing Seminar

Enhances writing proficiency, using graduate writing projects to implement the course concepts. Offers understanding of conventions and strategies used in scientific writing to prepare students for academic and professional communication. Prereqs., graduate standing and basic proficiency in English as a written language.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-5840 (1-6) Independent Study (Master's Level)

Instructor consent required. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-6000 (1) Seminar: Introduction to Biological Research

Discusses areas of biological research represented in EBIO. Required of all first-year graduate students in EBIO. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-6100 (1-3) Seminar in Environmental Biology

Instructor consent required. Restricted to graduate students. May be repeated up to 7 total credit hours. Same as EBIO 6120. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-6120 (1-3) Seminar in Environmental Biology

Same as EBIO 6100.

College of Arts & Sciences Ecology & Evolutionary Biology

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EBIO

EBIO-6200 (1-3) Seminar in Population Biology

May be repeated up to 7 total credit hours. Same as EBIO 6210. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-6210 (1-3) Seminar in Population Biology

May be repeated up to 7 total credit hours. Same as EBIO 6200.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-6300 (1-3) Seminar in Organismic Biology

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-6330 (2) Seminar in Organismic Biology

May be repeated up to 7 total credit hours.

[College of Arts & Sciences](#) [Ecology & Evolutionary Biology](#)

EBIO-6440 (2) Remote Sensing Field Methods

Explores theory and practical field measurements for validation of airborne and spaceborne spectral image acquisition. Emphasizes radiative scattering properties of soil, vegetation, cryosphere, and atmosphere. Characterization and calibration of instrumentation used to measure these properties. Prereq., GEOL/GEOG 4093/5093. Recommended prereq., GEOL 5240. Same as GEOG 6443.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-6840 (1-7) Independent Research (Master's Level)

Instructor consent required. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-6940 (1) Master's Degree Candidate---Plan II

Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-6950 (1-6) Master's Thesis

May be repeated up to 7 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-7840 (1-6) Independent Study (Doctoral Level)

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-8840 (1-6) Independent Research (Doctoral Level)

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology

EBIO-8990 (1-10) Doctoral Dissertation

Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Ecology & Evolutionary Biology



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ECEN

ECEN-1100 (1) Freshman Seminar

Introduces students to areas of emphasis with the ECE department through seminars presented by faculty and outside speakers. Emphasizes career opportunities, professional ethics and practices, history of the profession, and resources for academic success. Several sessions promote team building and problem solving, and provide opportunities for freshmen to meet their classmates. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [General](#)

ECEN-1400 (3) Introduction to Digital and Analog Electronics

Introduces fundamental concepts in electrical and computer engineering such as Ohm's Law, capacitors, Leds and 7-segment displays, transformers and rectifiers, digital logic, Fourier decomposition, frequency analysis. Lab work exposes students to commonly used instrumentation. Includes a final project. Skills in wiring, soldering and wire-wrapping are developed. Coreq., APPM 1350.

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [General](#)

ECEN-1500 (3) Sustainable Energy

Explores how energy is created and used in today's society. Through collaborative discussion and hands-on data collection, students will analyze the engineering challenges, fundamental limits, and potential solutions to meeting our energy needs sustainably. Students will learn to analyze numerical data, estimate orders, of magnitude, and apply mathematical methods in their own lives and in the ongoing energy debate. Basic algebra required. Restricted to non-engineering majors. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Engineering & Applied Science](#) | [Electrical & Computer Engineering](#) | [General](#)

ECEN-1840 (1-6) Independent Study

Provides an opportunity for freshmen to do independent, creative work. Numbered ECEN 1840 through ECEN 1849. Prereq., instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2010 (1-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2020 (1-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2050 (1-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2060 (1-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2250 (3) Introduction to Circuits and Electronics

Introduces linear circuit analysis and design, including extensive use of OP amps. Presents DC networks, including node and mesh analysis with controlled sources. Analysis of RL and RC circuits for both transient and sinusoidal steady-state responses using phasors. Prereq., APPM 1360. Coreq., APPM 2360. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2260 (3) Circuits as Systems

Continues basic circuit analysis of ECEN 2250: Laplace transform techniques, transfer functions, frequency response, Bode diagrams, resonant circuits, Fourier series expansions, and convolution. Prereq., ECEN 2250. Coreq., Electronics Design Laboratory. Prerequisites: Requires pre-requisite course of ECEN 2250 (minimum grade C-). Restricted to College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2270 (3) Electronics Design Lab

Provides an introduction to analysis, modeling, design, and testing of analog electronic circuits in a practical laboratory setting. The laboratory is centered around a robot platform and includes design, Spice simulations, prototyping and testing of circuits necessary to drive and remote control the robot. Coreq., ECEN 2260. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2350 (3) Digital Logic

Covers the design and applications of digital logic circuits, including combinational and sequential logic circuits. Laboratory component introduces simulation and synthesis software and hands-on hardware design. Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only. Prereq., ECEN 1030 or CSCI 1300. Prerequisites: Requires pre-requisite course of ECEN 1030 or CSCI 1300 (minimum grade C-). Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2420 (3) Electronics for Wireless Systems

Explores fundamental principles behind the operation of a radio, including a practical introduction to circuit elements. The course covers the components and operation of a radio (transmitter and receiver) with simple signals. Students learn through demos the practical basic properties of all needed components with an introduction to principles of operation. Prereqs., PHYS 1120, and APPM 1360 or MATH 2300. Restricted to EN majors. Prerequisites: Restricted to Electrical and Computer Engineering or Electrical Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2703 (3) Discrete Mathematics for Computer Engineers

Emphasizes elements of discrete mathematics appropriate for computer engineering. Topics: logic, proof techniques, algorithms, complexity, relations, and graph theory. Prereqs., ECEN 1030/CSCI 1300 and APPM 1360.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-2830 (1-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-2840 (1-6) Independent Study

Offers an opportunity for sophomores to do independent, creative work. Numbered ECEN 2840 through ECEN 2849. Prereq., instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3002 (3-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-3003 (3-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-3004 (3-5) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-3010 (3) Circuits and Electronics for Mechanical Engineers

Covers analysis of electrical circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Includes introductory digital electronics and microprocessors/microcontrollers. Prereqs., APPM 2360 and PHYS 1140. Same as MCEN 3017. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3030 (3) Electrical/Electronic Circuits Non-Major

For students not majoring in electrical engineering. Covers analysis of electric circuits by use of Ohm's law; network reduction; super position; node and loop analysis; Thevenin's and Norton's theorems; sinusoidal signals; phasors; power in ac circuits; transient response of simple circuits; operational amplifiers; logic circuits; and flip-flops. Prereq., APPM 2360. Restricted to nonmajors. Same as GEEN 3854. Prerequisites: Electrical/Computer Engineering Majors, Electrical Engineering Majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree Majors are restricted from taking this course.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-3070 (3) Edges of Science

Examines the evidence for paranormal phenomena, reasons for skepticism, and physical models that could account for the data. Reviews controversial scientific theories that overcame barriers to acceptance, and how worldviews shift. Considers the scientific method and ways uncontrolled factors might influence experiments. Develops skills in statistical analysis of data. Includes group projects testing for anomalous and parapsychological effects. Not accepted as a technical elective for engineering majors. Prereq., MATH 1011 or equivalent.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-3170 (3) Energy Conversion 1

Introduces block diagrams, conventional/renewable energy sources, power electronics, magnetic circuits, transformers and power systems, forces/torques of electric machines. Employs a top-down approach to present applications first and then discuss components. Uses Pspice, Mathematica, Matlab. Prereq., PHYS 1120. Coreq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-3250 (3) Microelectronics

Develops a basic understanding of active semiconductor devices. Focuses on building an understanding of BJT and CMOS devices in both digital and analog application. Prereq., ECEN 2260. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-3300 (3) Linear Systems

Characterization of linear and time-invariant systems in time and frequency domains. Continuous time systems are analyzed using differential equations and Laplace and Fourier transforms. Discrete time systems, which can be implemented using a modern digital signal processing framework, use difference equations, z-transforms and discrete time Fourier transforms for their analysis and design. Applications of linear systems include communications, signal processing, and control systems. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

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ECEN

ECEN-3303 (3) Introduction to Robotics

Introduces students to fundamental concepts in autonomous, mobile robotics: mechanisms, locomotion, kinematics, control, perception and planning. The course consists of lectures and lab sessions that are geared toward developing a complex robot controller in a realistic, physics-based multi-robot simulator. Prereqs., CSCI 2270 and 2824. CSCI 3302 and ECEN 3303 are the same course.

[College of Engineering & Applied Science](#)
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ECEN-3320 (3) Semiconductor Devices

Highlights the fundamentals of semiconductor materials and devices. Topics include the electrical and optical properties of semiconductors, the theory of Pn junctions, bipolar and field-effect transistors, and optoelectronic devices. Prereq., ECEN 3250. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
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[General](#)

ECEN-3350 (3) Programming Digital Systems

Covers computer usage in system implementation, central processor capabilities, and managing concurrency. Includes computer architecture, instruction sets, programming, input/output, interrupts, block transfers, semaphores, shared procedures, multiple processors, and memory management. Prereq., ECEN 2350. Formerly ECEN 2120. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
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ECEN-3400 (3) Electromagnetic Fields and Waves

Electromagnetic fields are covered at an introductory level, starting with electrostatics and continuing with DC current, magnetostatics, time-varying magnetic fields, waves on transmission lines, Maxwell's equations and the basics of plane waves. The use of fields in inductors, capacitors, resistors, transformers, and energy and power concepts are studied. Prereqs., APPM 2350, PHYS 1110, and ECEN 2250. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Electrical & Computer Engineering General

ECEN-3410 (3) Electromagnetic Waves and Transmission

Covers reflected and transmitted plane waves in layered media, Poynting's theorem of electromagnetic power, two-conductor transmission line theory and practice, Smith chart usage and impedance matching, and elements of antenna theory. Prereq., ECEN 3400. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Engineering & Applied Science Electrical & Computer Engineering General

ECEN-3810 (3) Introduction to Probability Theory

Covers the fundamentals of probability theory, and treats the random variables and random processes of greatest importance in electrical engineering. Provides a foundation for study of communication theory, control theory, reliability theory, optics, and portfolio analysis. Prereqs., APPM 2350 and 2360. Credit not granted for this course and MATH 4510 or APPM 3570. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Electrical & Computer Engineering General

ECEN-3840 (1-6) Independent Study

Offers an opportunity for juniors to do independent, creative work. Numbered ECEN 3840-3849. Prereq., instructor consent.

College of Engineering & Applied Science Electrical & Computer Engineering General

ECEN-3930 (6) ECE Co-op Education

Participate in a cooperative education program working with a corporate or government entity. Individual assignments are arranged between the department and the outside employer. This course is offered only through Continuing Education. May be repeated up to 24 credit hours. Prereq., ECEN 2120, 2260, minimum GPA of 2.85 required. Restricted to sophomore, junior and senior EEEN and ECEN majors.

College of Engineering & Applied Science Electrical & Computer Engineering General

ECEN-4000 (3) Special Topics

College of Engineering & Applied Science Electrical & Computer Engineering General

ECEN-4001 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered ECEN 4001-4049. Prerequisites vary.

College of Engineering & Applied Science Electrical & Computer Engineering Bioengineering

ECEN-4002 (1-4) Special Topics

College of Engineering & Applied Science Electrical & Computer Engineering Communications

ECEN-4006 (1-4) Special Topics

College of Engineering & Applied Science Electrical & Computer Engineering Optics

ECEN-4009 (1-4) Special Topics

College of Engineering & Applied Science Electrical & Computer Engineering VLSI CAD Methods

ECEN-4011 (1-4) Special Topics

Same as ECEN 5011.

College of Engineering & Applied Science Electrical & Computer Engineering Bioengineering

ECEN-4012 (1-4) Special Topics

College of Engineering & Applied Science Electrical & Computer Engineering Communications

ECEN-4013 (1-4) Special Topics

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

ECEN-4016 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4017 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-4018 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-4021 (1-4) Special Topics

Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4023 (1-4) Special Topics

Same as ECEN 5023.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4024 (1-4) Special Topics

Same as ECEN 5024.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-4028 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-4049 (1-4) Special Topics

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [VLSI CAD Methods](#)

ECEN-4053 (1-4) Special Topics

Same as ECEN 5053.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

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ECEN

ECEN-4106 (3) Photonics

Deals with the generation, transmission, modification and detection of light. Applications include fiber optics communications, data storage, sensing, and imaging. Leads to understanding of fundamental physical principles used in the analysis and design of modern photonic systems. Prereqs., ECEN 3400. Coreq., ECEN 3300. Restricted to seniors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Optics](#)

ECEN-4116 (3) Introduction to Optical Communications

Given data rates, distance, reliability or bit error rates, the information required to specify the type of fiber, the source, the wave length, type of modulation, repeater or optical amplifiers, and detectors will be presented. Prereq., ECEN 3400 or equivalent. Same as TLEN 5480.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Optics](#)

ECEN-4120 (3) Neural Network Design

Introduces basic (artificial) neural network architectures and learning rules. Emphasizes mathematical analysis of these networks, methods of training them, and application to practical problems such as pattern recognition, signal processing, and control systems. Shows how to construct a network of "Neurons" and train them to serve a useful function. Prereqs., APPM 2360 or MATH 3130, and CSCI 1300 or equivalent. Same as ECEN 5120.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
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ECEN-4138 (3) Control Systems Analysis

Analysis and design of continuous time control systems using classical and state space methods. Laplace transforms, transfer functions and block diagrams. Stability, dynamic response, and steady-state analysis. Analysis and design of control systems using root locus and frequency response methods. Computer aided design and analysis. Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only. Prereq., ECEN 3300, background in Laplace transforms, linear algebra, and ordinary differential equations. Same as ECEN 5138. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Electrical & Computer Engineering Dynamical Systems and Control

ECEN-4167 (3) Energy Conversion 2

Studies the derivation of the dynamic equations of motion of electromechanical systems, linear and rotary motion machines based on variational principles and basic force laws. Looks at equivalent circuits in abc and dqo coordinates for Ac and Dc machines. Discusses conditions under which an electromagnetic torque can be produced. Applies theory to the most important modes of steady-state and transient operation of electrical energy converters. Prereq., ECEN 3170.

College of Engineering & Applied Science Electrical & Computer Engineering Power

ECEN-4224 (3) High Speed Digital Design

Covers fundamentals of high-speed properties of: logic gates, measurement techniques, transmission lines, ground planes and layer stacking, terminations, vias, power systems, connectors, ribbon cables, clock distribution and clock oscillators. Prereq., ECEN 3400. Recommended prereq., ECEN 3410. Same as ECEN 5224.

College of Engineering & Applied Science Electrical & Computer Engineering Electromagnetics

ECEN-4242 (3) Communication Theory

Covers modern digital and analog communication systems, Fourier analysis of signals and systems, signal transmission, amplitude modulation, angle modulation, digital communication systems, and behavior of communication systems in the presence of noise, including both analog and digital systems. Prereqs., ECEN 3300 and ECEN 3810 or equivalent. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Electrical & Computer Engineering Communications

ECEN-4324 (3) Fundamentals of Microsystem Packaging

Introduction to the fundamentals of microsystems packaging. This is a seminar style course which surveys topics in microsystem packaging such as: electrical package design, design for reliability, thermal management, multichip packaging, IC Assembly, sealing and encapsulation, and board assembly. Coreq., ECEN 3410 or instructor consent. Same as ECEN 5324. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science Electrical & Computer Engineering Electromagnetics

ECEN-4341 (3) Bioelectromagnetics

Effects of electric and magnetic fields on biological systems are described with applications to therapy and safety. The complexity of biological systems is described to provide a better understanding of the distribution of fields inside the body. Risk analysis is also introduced. Prereqs., ECEN 3400 and 3810. Same as ECEN 5341.

College of Engineering & Applied Science Electrical & Computer Engineering Bioengineering

ECEN-4375 (3) Microstructures Laboratory

Offers experience in monolithic silicon integrated circuit fabrication techniques, including Ic layout, pattern compiling and generation, mask making, oxidation, photolithography, diffusion, implantation, metallization, bonding, process analysis, and testing. Includes design project. Prereq., ECEN 3320. Same as ECEN 5375.

College of Engineering & Applied Science Electrical & Computer Engineering Nanostructures and Devices

ECEN-4423 (3) Chaotic Dynamics

Explores chaotic dynamics theoretically and through computer simulations. Covers the standard computational and analytical tools used in nonlinear dynamics and concludes with an overview of leading-edge chaos research. Topics include time and phase-space dynamics, surfaces of section, bifurcation diagrams, fractal dimension, and Lyapunov exponents. Prereqs., two semesters calculus, ECEN 1030 or CSCI 1300 or equivalent, and PHYS 1110. Recommended prereqs., PHYS 1120, CSCI 3656, and MATH 3130. Same as CSCI 4446 and ECEN 5423.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

ECEN-4517 (3) Power Electronics and Photovoltaic Power Systems Laboratory

Focuses on analysis, modeling, design, and testing of electrical energy processing systems in a practical laboratory setting. Studies power electronics converters for efficient utilization of available energy sources, including solar panels and utility. The experimental projects involve design, fabrication, and testing of a solar power system. Prereq., ECEN 4797. Restricted to seniors. Same as ECEN 5517.

College of Engineering & Applied Science Electrical & Computer Engineering Power

ECEN-4532 (3) Digital Signal Processing Laboratory

Develops experience in code development, debugging, and testing of real-time digital signal processing algorithms using dedicated hardware. Applications include filtering, signal synthesis, audio special effects, and frequency domain techniques based on the Fast Fourier Transform. Prereq., ECEN 3300. Coreq., ECEN 4632. Same as ECEN 5532.

ECEN-4553 (3) Compiler Construction

Introduces the principles and techniques for compiling high-level programming languages to assembly code. Topics include parsing, instruction selection, register allocation, and compiling high-level features such as polymorphism, first-class functions, and objects. Students build a complete compiler for a simple language. Prereqs., ECEN 2703 and ECEN 3350. Same as CSCI 4555 and ECEN 5523. Prerequisites: Restricted to College of Engineering majors only.

ECEN-4555 (3) Principles of Energy Systems & Devices

Develops principles underlying electronic, optical and thermal devices, materials and nanostructures for renewable energy. Course provides a foundation in statistical thermodynamics, and uses it to analyze the operation and efficiency limits of devices for photovoltaics, energy storage (batteries & ultra-capacitors), chemical conversion (fuel cells and engines), solid state lighting, heat pumps, cooling, and potentially harvesting zero-point energy from the vacuum. Prereq., ECEN 3810. Prereq. or coreq., PHYS 2130 or 2170 or instructor consent. Same as ECEN 5555.

ECEN-4583 (3) Software System Development

Lectures deal with techniques for product requirements definition, project planning, coding, verification, validation, performance evaluation, and maintenance of medium-scale (2-3000 line) systems. Primary emphasis is on practical application of these techniques to a specified software project. Students work in teams to produce appropriate documents for each phase and are responsible for project completion according to specification and schedule. Course project is written in C on a Unix look-alike system; prior knowledge of C or Unix is not required. Prereq., CSCI 2270 or instructor consent.

ECEN-4593 (3) Computer Organization

Studies computer design at the gate level. Discusses instruction set architecture design, arithmetic and logic unit design, control logic, memory design and caches, simple pipelining, I/O, and peripheral devices. Briefly covers aspects of modern computer architecture, such as multicore processors and cache coherence for these. Prereq., ECEN 2350, and ECEN 3350 or CSCI 2400. Same as CSCI 4593. Prerequisites: Restricted to College of Engineering majors only.

ECEN-4606 (3) Undergraduate Optics Laboratory

Introduces fundamental concepts, techniques, and technology of modern optical and photonic systems. Individual labs cover particular fields of optical technology, including light sources such as lasers and LEDs, interferometers, fiber-optic communications, photodetection, spectrometers, and holography. Practical skills such as how to align an optical system will also be emphasized. Prereq. ECEN 3400. Coreq. ECEN 4106 or equivalent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4610 (2) Capstone Laboratory Part 1

Hands-on laboratory experience utilizing teams in the systematic proposal, design, integration, and testing of an electronic/computer based system. The result will be the prototype of a stand-alone analog/digital system. Must taken ECEN 4620 to complete the sequence. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Electrical and Computing Engineering (ECEN), Electrical Engineering (EEEN) majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only. Prereqs., ECEN 2260, 2270, 3350, 3360 and 3810. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Electrical and Computing Engineering (ECEN), Electrical Engineering (EEEN) majors or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4613 (3) Embedded System Design

Introduces system hardware and firmware design for embedded applications. Students independently design and develop a hardware platform encompassing a microcontroller and peripherals. Firmware is developed in C and assembly. A significant final project is designed, developed, documented, and presented. Prereqs., ECEN 2350 and 3350, or instructor consent. Recommended prereqs., ECEN 3250 and 4593. Same as ECEN 5613. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-4616 (3) Optoelectronic System Design

Examines optical components and electro-optic devices with the goal of integrating into well design optoelectronic systems. Sample systems include optical storage, zoom lenses, and telescopes. Prereq. ECEN 3400.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-4620 (3) Capstone Lab, Part 2

Hands-on laboratory experience for teams in the systematic proposal, design, build integration, test, and documentation of an electronic/computer based system. The result will be a reliably operating, stand-alone analog/digital system, with publication quality technical documentation. Prereq., ECEN 4610. Prerequisites: Restricted to Electrical and Computer Engineering or Electrical Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-4623 (3) Real-Time Embedded Systems

Design and build a microprocessor-based embedded system application requiring integration of sensor/actuator devices, a real-time operating system and application firmware and software. Real-time rate monotonic theory and embedded architecture are covered. Prereq., ECEN 2350 and ECEN 3350, or instructor consent. Recommended prereq., ECEN 4613. Same as ECEN 5623. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

ECEN-4632 (3) Introduction to Digital Filtering

Covers both the analysis and design of FIR and IIR digital filters. Discusses implementations in both software and hardware. Emphasizes use of the FFT as an analysis tool. Includes examples in speech processing, noise canceling, and communications. Prereq., ECEN 3300. Restricted to seniors.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Communications](#)

ECEN-4633 (3) Hybrid Embedded Systems

Introduces system hardware and design techniques for embedded and hybrid reconfigurable systems. Intended for those interested in developing projects using hardware description languages to build application-specific computing systems. Industry standards are used for design, development, and debugging. Prereqs., ECEN 2350, 3350, and 4593, or equivalent. Same as ECEN 5633. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

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ECEN

ECEN-4634 (3) Microwave and RF Laboratory

Introduce RF and microwave measurement methods. A laboratory course whose experiments build on material learned in ECEN 3410 (Electromagnetic Waves and Transmission): electromagnetic waves, transmission lines, waveguides, time-domain reflection, frequency-domain measurement, microwave networks, impedance matching, antenna pattern measurement, radar, and simple nonlinear concepts such as harmonics, square-law detection, mixing and transmitter/receiver applications. Prereq., ECEN 3410. Same as ECEN 5634. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Electromagnetics](#)

ECEN-4638 (3) Control Systems Laboratory

Provides experience in control system design and analysis, using both real hardware and computer simulation. Covers the entire control system design cycle: modeling the system, synthesizing a controller, conducting simulations, analyzing the design to suggest modifications and improvements, and implementing the design for actual testing. Prereq., ECEN 3300. Coreq., ECEN 4138. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Dynamical Systems and Control](#)

ECEN-4643 (3) SW Engineering of Concurrent Systems

Addresses engineering of applications requiring multiple software processes running concurrently, sharing data, and communicating as a system in a single environment. Topics include performance analysis of architecture design; analysis of requirements, design and testing of synchronization and communication; the interplay of system design and performance with the impact of memory management, input/output, and file system support. Prereq., ECEN 4583 or 5543. ECEN 4643 and 5643 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

[College of Engineering & Applied Science](#)
[Electrical & Computer Engineering](#)
[Computer and Digital Systems](#)

ECEN-4652 (3) Communication Laboratory

Involves laboratory experiments demonstrating material taught in ECEN 4242. Uses spectrum analysis to study baseband signals and signal processors. Topics include noise, AM, FM, PM, sampling, quantizing/encoding, TDM, FDM, equalizers, and a complete communication system. Prereq. or coreq., ECEN 4242. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

College of Engineering & Applied Science Electrical & Computer Engineering Communications

ECEN-4653 (3) Real-Time Digital Media

Learn how to design and build Linux-based real-time system applications for digital media encode/decode and transport. Course focus is on the process as well as fundamentals of designing, coding, and testing Linux-based real-time systems often used in industry for digital media systems. Students use POSIX kernel-mapped threads and drivers to implement real-time digital media solutions. Prereqs., ECEN 1030 or CSCI 1300, and CSCI 3753 or equivalent. Restricted to engineering students. ECEN 4653 and 5653 are the same course.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

ECEN-4743 (3) SW Engineering of Distributed Systems

Addresses engineering of networked applications and self-contained embedded system products involving multiple processors. The fundamental concepts of software engineering are complicated by an application running simultaneously and asynchronously on multiple processors over a network. Topics: specification, analysis, design, and testing of distributed components including concerns of security, synchronization, transaction coordination, data replication, web services, and service oriented architectures. Prereq., ECEN 4583 or 5543 or CSCI 5548. Recommended prereq., ECEN 5643. ECEN 4743 and 5743 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

ECEN-4753 (3) Computer Performance Modeling

Presents a broad range of system modeling techniques, emphasizing applications to computer systems. Covers stochastic processes, queuing network models, stochastic Petri nets, and simulation (including parallel processing techniques). Prereq., CSCI 3753 or equivalent and second-semester calculus. Recommended prereq., a course in statistics. Same as CSCI 4753, 5753, and ECEN 5753.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

ECEN-4797 (3) Introduction to Power Electronics

An introduction to switched-mode converters. Includes steady-state converter modeling and analysis, switch realization, discontinuous conduction mode, and transformer-isolated converters. Ac modeling of converters using averaged methods, small-signal transfer functions, feedback loop design, and transformer design. Prereq., ECEN 3250. Same as ECEN 5797. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science Electrical & Computer Engineering Power

ECEN-4811 (3) Neural Signals and Functional Brain Imaging

Explores bioelectric and metabolic signals generated by the nervous system from two standpoints: 1) their biophysical genesis and role in neural integration and 2) neurotechnologies such as electroencephalography, magnetoencephalography, deep brain stimulation, and functional magnetic resonance imaging. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ECEN 5811 and ASEN 4216.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4821 (3) Neural Systems and Physiological Control

A biophysical exploration of human physiology from the standpoints of control systems and neural information processing. Topics include: neural control of movement and cardiovascular performance, tissue growth and repair, carcinogenesis, and physiological responses to microgravity. Prereqs., ECEN 2260 or 3030, ASEN 3300, or instructor consent. Same as ECEN 5821 and ASEN 4426/5426.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4827 (3) Analog IC Design

Covers the fundamentals of transistor-level analog integrated circuit design. Starting with motivations from application circuits, the course develops principles of dc biasing, device models, amplifier stages, frequency response analysis and feedback and compensation techniques for multi-stage operational amplifiers. Prereq., ECEN 3250. Same as ECEN 5827. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-4831 (3) Brains, Minds, and Computers

Provides background for the design of artificially intelligent systems based upon our present knowledge of the human brain. Includes similarities and differences between the brain and computers, robots, and common computer models of brain and mind. Emphasizes the neuron as an information processor, and organization of natural as well as synthetic neural networks. Prereq., ECEN 2260 or 3030, or instructor consent. Same as ECEN 5831, ASEN 4436/5436.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-4840 (1-6) Independent Study

Offers an opportunity for seniors to do independent, creative work. Numbered ECEN 4840-4849. Prereq., instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5005 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

ECEN-5008 (1-4) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5011 (1-4) Special Topics

Same as ECEN 4011. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5012 (3) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5016 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5018 (1-4) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5021 (1-4) Special Topics

Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5023 (1-4) Special Topics

Same as ECEN 4023.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5024 (1-4) Special Topics

Same as ECEN 4024.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5028 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5032 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5049 (1-4) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

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ECEN

ECEN-5053 (1-4) Special Topics

Same as ECEN 4053.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

ECEN-5104 (3) Computer-Aided Microwave Circuit Design

Emphasizes the design of strip-line and microstrip circuits, using a CAD package. Discusses design of impedance transformers, amplifiers, switches, phase-shifters, etc. Assignments include design of typical circuits and their analysis using a microwave circuit analysis program. Laboratory includes measurements using a network analyzer facility on a typical circuit designed and fabricated by students. Prereq., ECEN 3410. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Electromagnetics](#)

ECEN-5107 (3) Electric Power Grid

Examines the electrical grid, including conventional generation, transmission/ distribution, and new renewable generation technologies. Issues including grid stability, the increase in variable generation on the grid, and how the electrical grid will change in the future will be addressed. Intended for students with an engineering background from outside electrical engineering who desire an introduction to the power grid. Prerequisites: Excludes graduate students in Electrical Engineering or Electrical Engineering Concurrent degree plans.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-5114 (3) Waveguides and Transmission Lines

Intermediate course dealing with guided-wave systems at HF, microwave, and optical frequencies. Modern waveguiding structures, including circular metallic waveguides, microstrip transmission lines, and optical waveguides are treated. Additional material may include waveguide losses, excitation of waveguides, microwave network theory, coupled-mode theory, resonators, and pulse propagation in waveguides. Prereq., ECEN 3410.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5120 (3) Neural Network Design

Same as ECEN 4120.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5122 (3) Wireless Local Area Networks

Examines small-scale wireless networks particularly personal and local area networks. Covers licensed and unlicensed spectrum, indoor and small-scale radio propagation, modulation techniques, network topologies, ad hoc and infrastructure networks, protocol design, TCP/IP-wireless interactions, and protocol standards. Prereq., ECEN 3810 or APPM 3570 or MATH 4510. Recommended prereq., TLEN 5430. Same as TLEN 5520.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5134 (3) Electromagnetic Radiation and Antennas

Covers elementary sources and antennas, cylindrical wire antennas, loop antennas, radiation patterns and antenna gain, aperture sources such as horns and dishes, specialized antennas such as microstrip patches, linear and circular arrays, mutual coupling and ground effects, ray and numerical formulations, transmission formulas, and antenna applications. Prereq., ECEN 3410. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5138 (3) Control Systems Analysis

Topics covered in ECEN 4138 will be investigated in more depth, require external readings, additional homework will be assigned and the exams will be more difficult. Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only. Prereq., ECEN 3300 or equivalent. Same as ECEN 4138. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5139 (3) Formal Verification of VLSI Systems

Covers two-level and multilevel minimization, optimization via expert systems, algebraic and Boolean decomposition, layout methodologies, state assignment, encoding and minimization, silicon compilation. Prereqs., ECEN 2703 and general proficiency in discrete mathematics and programming.

College of Engineering & Applied Science | Electrical & Computer Engineering | VLSI CAD Methods

ECEN-5154 (3) Computational Electromagnetics

Provides a computational study of microwave circuits and antennas, using finite-difference, finite-element, and moment methods. Requires students to develop algorithms, write and execute programs, and prepare reports analyzing results. Circuits include waveguides, microstrip lines, and center-fed dipole antennas. Prereq., ECEN 3410.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5156 (3) Physical Optics

Covers the application of Maxwell's equations to optical wave propagation in free space and in media. Topics include polarization, dispersion, geometrical optics, interference, partial coherence, and diffraction. Prereq. ECEN 3410.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5166 (3) Guided Wave Optics

Builds up the concepts necessary to understand guided wave optical systems. Topics include slab wave-guides, semiconductor lasers, fiber optics, and integrated optics. Prereqs., ECEN 4645 or 5645, and ECEN 5156.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5224 (3) High Speed Digital Design

Same as ECEN 4224.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5254 (3) Remote Sensing Signals and Systems

Examines passive and active techniques for remote sensing with emphasis on fundamental noise and detection issues from radio to optical frequencies. Emphasis is placed on electromagnetic wave detection, statistical signal and noise analysis, remote sensing system architecture, and hardware for remote sensing systems. Systems studied include radiometers, radars (real and synthetic aperture),

interferometers, and lidars. Applications to detection and surveillance, Earth remote sensing, astronomy, and imaging systems are covered. Prereqs., ECEN 3300 and 3400, or instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5264 (3) Electromagnetic Absorption, Scattering, and Propagation

Electromagnetic waves in communication, navigation, and remote sensing systems from radio to optical frequencies, including propagation in deterministic and random media. Topics include absorption and refraction by gases, discrete scattering by precipitation, clouds, and aerosols, continuous scattering by refractivity fluctuations, earth-space propagation and Faraday rotation in plasmas, and radiative transfer theory.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5274 (3) Radar Science and Techniques

Studies atmospheric radar fundamentals. Examines scattering by precipitation and atmospheric turbulence; long-wavelength radars and the dynamics of the middle and upper atmosphere; design of meteorological and clear-air radars; profiling tropospheric winds, temperature, and humidity by radar and radiometry; and ionospheric sounding using ionosondes and incoherent-scatter radars. Prereq., ECEN 5254 or instructor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5322 (3) Search Engine & Analysis of High-dimensional Dataset

Provides students with an exposition of the novel algorithmic methods for searching and analyzing big data. The class includes a project: students design a content-based music information retrieval system similar to those used by Gracenote, Shazam, or Pandora. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5324 (3) Fundamentals of Microsystem Packaging

Same as ECEN 4324. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Electromagnetics

ECEN-5341 (3) Bioelectromagnetics

Effects of electric and magnetic fields on biological systems are described with applications to therapy and safety. The complexity of biological systems is described to provide a better understanding of the distribution of fields inside the body. Risk analysis is also

introduced. Same as ECEN 4341. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Bioengineering](#)

ECEN-5345 (3) Introduction to Solid State Physics

Course provides an introduction to the electronic, photonic and phononic properties of solid state materials and devices. Covers optical constants, free electron gas, plasmons, energy bands, semiconductors and doping, excitons, quantum wells, phonons, and electrooptical effects. The course makes use of quantum mechanical methods. Prereq., ECEN 3400 and basic quantum mechanics or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Nanostructures and Devices](#)

ECEN-5355 (3) Principles of Electronic Devices 1

Relates performance and limitations of solid state devices to their structures and technology. Examines semiconductor physics and technology. Includes Pn-junction, Mos, and optoelectronic devices. For both advance circuit and device engineers. Prereq., ECEN 3320 or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Nanostructures and Devices](#)

ECEN-5358 (3) Optimization and Optimal Control

Introduces the theory and practice of optimization and optimal control. Topics include basic theory, nonlinear system trajectories and regulation, function space operators and derivatives, optimality conditions, barrier functionals, and Newton's method in function space. Recommended prereq., ECEN 5448. Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Dynamical Systems and Control](#)

ECEN-5365 (3) Semiconductor Materials and Devices 1

Includes an introduction to time-independent quantum mechanics and perturbation theory, tunneling, application to quantum-well electronic and optical devices, electrons in a crystalline solid, Bloch's theorem, energy bands and energy gaps, the effective mass approximation, a survey of energy bands for real crystals: Si, Ge, GaAs, InP, AlGaAs, etc., band structure engineering, and the electrical and optical properties of compound semiconductors. Prereq., ECEN 3320 and 5345.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Nanostructures and Devices](#)

ECEN-5375 (3) Microstructures Laboratory

Same as ECEN 4375.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Nanostructures and Devices](#)

ECEN-5418 (3) Automatic Control Systems 1

Coverage of principles of control systems with Multiple Inputs and Multiple Outputs (MIMO). Topics include MIMO state-space theory, applications of the singular value decomposition (SVD), coprime factorization methods, frequency domain topics, and an introduction to H-infinity design. Prereqs., ECEN 3300, 4138, and 5448, or equivalents.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Dynamical Systems and Control](#)

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ECEN

ECEN-5423 (3) Chaotic Dynamics

Same as ECEN 4423 and CSCI 5446.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

ECEN-5438 (3) Robot Control

Provides a comprehensive treatment of the mathematical modeling of robot mechanisms and the analysis methods used to design control laws for these mechanisms. Prereqs., ECEN 4138 and PHYS 1110.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Dynamical Systems and Control](#)

ECEN-5448 (3) Advanced Linear Systems

Offers a state space approach to analysis and synthesis of linear systems, state transition matrix, controllability and observability, system transformation, minimal realization, and analysis and synthesis of multi-input and multi-output systems. Prereq., ECEN 3300 and 4138. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Dynamical Systems and Control](#)

ECEN-5458 (3) Sampled Data and Digital Control Systems

Provides an analysis and synthesis of discrete-time systems. Studies sampling theorem and sampling process characterization, z-transform theory and z-transferfunction, and stability theory. Involves data converters (A/D and D/A), dead-beat design, and digital

controller design. Prereqs., ECEN 3300 and 4138. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Dynamical Systems and Control

ECEN-5503 (3) Computer Systems Design and Architecture

Covers digital logic circuits, assembly language programming, and gate-level computer design and architecture. Also discusses computer arithmetic algorithms, I/O, peripheral device performance, networking, and the Internet. Limited to graduate students. For ECE/CS majors with nontraditional backgrounds.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5517 (3) Power Electronics and Photovoltaic Power Systems Laboratory

Prereq., ECEN 5797. Same as ECEN 4517.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5523 (3) Compiler Construction

Same as ECEN 4553 and CSCI 5525. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5532 (3) Digital Signal Processing Laboratory

Same as ECEN 4532.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5533 (3) Fundamental Concepts of Programming Languages

Considers concepts common to a variety of programming languages--how they are described (both formally and informally) and how they are implemented. Provides a firm basis for comprehending new languages and gives insight into the relationship between languages and machines. Prereq., CSCI 3155 or instructor consent. Same as CSCI 5535.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5543 (3) Software Engineering of Standalone Programs

Applies engineering principles to phases of software product development, project planning, requirements definition, design, design patterns, validation, and maintenance. Emphasizes practical methods for communicating and verifying definitions and designs--- prototyping, inspections, and modeling (primarily UML). Includes relation to embedded systems and object-oriented design. Prereqs., ECEN 1030/CSCI 1300, CSCI 2270, or instructor consent. Same as CSCI 5548. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5553 (3) Parallel Processing

Examines a range of topics involved in using parallel operations to improve computational performance. Discusses parallel architectures, parallel algorithms and parallel programming languages. Architectures covered include vector computers, multiprocessors, network computers, and data flow machines. Prereq., background in computer organization, introduction to programming languages, elementary numerical analysis, ECEN 4593 and CSCI 3656, or instructor consent. Same as CSCI 5551.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5555 (3) Principles of Energy Systems & Devices

Same as ECEN 4555. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors) or Graduate students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Nanostructures and Devices

ECEN-5573 (3) Advanced Operating Systems

Same as CSCI 5573.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5583 (3) Artificial Intelligence

Prereq., CSCI 3245 or equivalent. Same as CSCI 5582.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5593 (3) Advanced Computer Architecture

Provides a broad-scope treatment of important concepts in the design and implementation of high-performance computer systems. Discusses important issues in the pipelining of a processor, out-of-order instruction issue and superscalar designs, design of cache memory systems for such systems, and architectural features required for multicore processor designs. Also studies current and

historically important computer architectures. Prereq., ECEN 4593 or instructor consent. Same as CSCI 5593. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5603 (3) Software Project Management

Presents topics and techniques critical to the management of software product development, including estimating, planning, quality, tracking, reporting, team organization, people management, and legal issues. Gives special attention to problems unique to software projects. Prereqs., ECEN 4583, 5543, and CSCI 4318, or equivalent industrial experience. Same as CSCI 5608 and EMEN 5031. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5606 (3) Optics Laboratory

Provides advanced training in experimental optics. Consists of optics experiments that introduce the techniques and devices essential to modern optics, including characterization of sources, photodetectors, modulators, use of interferometers, spectrometers, and holograms, and experimentation of fiber optics and Fourier optics. Prereq., undergraduate optics course such as PHYS 4510. Same as PHYS 5606.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5612 (3) Noise and Random Processes

Reviews probability theory, convergence and probability bounds, multivariable normal theory, sequences of random variables and stochastic processes, Bernoulli and Poisson processes, wide-sense stationary processes, and correlation functions and power spectra. Also includes linear systems with random inputs and Gauss-Markov processes, first- and second-order properties of Arma processes, and Markov chains. Prereqs., ECEN 3300 and 3810 or MATH 4510. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5613 (3) Embedded System Design

Same as ECEN 4613. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5616 (3) Optoelectric System Design

Same as ECEN 4616. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5622 (3) Information Theory and Coding

Entropy rates of information sources, fundamental limits of data compression, Huffman and arithmetic codes; mutual information, fundamental limits of information transmission over noisy communication channels with/without feedback. Selected topics in information storage, lossy data compression, and network information theory. Prereqs., ECEN 3810 or equivalent, or instructor consent.

Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5623 (3) Real-Time Embedded Systems

Same as ECEN 4623. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5626 (3) Active Optical Devices

Analysis of active optical devices such as semiconductor laser, detector and flat panel display by clearly defining and interconnecting the fundamental physical mechanism, device design and operating principles and device performance. Recommended prereq., ECEN 5355.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5632 (3) Theory and Application of Digital Filtering

Digital signal processing and its applications are of interest to a wide variety of scientists and engineers. The course covers such topics as characterization of linear discrete-time circuits by unit pulse response, transfer functions, and difference equations, use of z-transforms and Fourier analysis, discrete Fourier transform and fast algorithms (FFT), design of finite and infinite impulse response filters, frequency transformations, study of optimized filters for deterministic signals. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5633 (3) Hybrid Embedded Systems

Same as ECEN 4633. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems



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ECEN

[ECEN-5634 \(3\) Graduate Microwave and RF Laboratory](#)

Introduce RF and microwave measurement methods. A laboratory course whose experiments build on material learned in ECEN 3410 (Electromagnetic Waves and Transmission): electromagnetic waves, transmission lines, waveguides, time-domain reflection, frequency-domain measurement, microwave networks, impedance matching, antenna pattern measurement, radar, and simple nonlinear concepts such as harmonics, square-law detection, mixing and transmitter/receiver applications. Prereq., ECEN 3410. Restricted to graduate students. Same as ECEN 4634. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Electromagnetics](#)

[ECEN-5643 \(3\) SW Engineering of Concurrent Systems](#)

Addresses engineering of applications requiring multiple software processes running concurrently, sharing data, and communicating as a system in a single environment. Topics include performance analysis of architecture design; analysis of requirements, design and testing of synchronization and communication; the interplay of system design and performance with the impact of memory management, input/output, and file system support. Prereq., ECEN 4583 or 5543. ECEN 4643 and 5643 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Computer and Digital Systems](#)

[ECEN-5645 \(3\) Introduction to Optical Electronics](#)

Introduces lasers, Gaussian optics, modulators, nonlinear optics, optical detectors, and other related devices. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Nanostructures and Devices](#)

ECEN-5652 (3) Detection and Extraction of Signals from Noise

Introduces detection, estimation, and time series analysis. Topics include hypothesis testing, detection of known form and random signals, least squares parameter estimation, maximum likelihood theory, minimum mean-squared error estimation, Kalman-Wiener filtering, prediction in stationary time series, and modal analysis. Applications include studies in communications, control, and experimental modeling. Prereq., ECEN 5612.

College of Engineering & Applied Science Electrical & Computer Engineering Communications

ECEN-5653 (3) Real-Time Digital Media

Learn how to design and build Linux-based real-time system applications for digital media encode/decode and transport. Course focus is on the process as well as fundamentals of designing, coding, and testing Linux-based real-time systems often used in industry for digital media systems. Students use POSIX kernel-mapped threads and drivers to implement real-time digital media solutions. Prereqs., ECEN 1030 or CSCI 1300, and CSCI 3753 or equivalent. Restricted to engineering students. ECEN 4653 and 5653 are the same course.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

ECEN-5672 (3) Digital Image Processing

Course objective is to present the fundamental techniques available for image representation and compression (e.g., wavelets), filtering (e.g., Wiener and nonlinear filter), and segmentation (e.g., anisotropic diffusion). Prereq., ECEN 5632 or instructor consent.

College of Engineering & Applied Science Electrical & Computer Engineering Communications

ECEN-5673 (3) Distributed Systems

Examines systems that span multiple autonomous computers. Topics include system structuring techniques, scalability, heterogeneity, fault tolerance, load sharing, distributed file and information systems, naming, directory services, resource discovery, resource and network management, security, privacy, ethics, and social issues. Recommended prereq., CSCI 5573 or a course in computer networks. Same as CSCI 5673.

College of Engineering & Applied Science Electrical & Computer Engineering Computer and Digital Systems

ECEN-5682 (3) Theory and Practice of Error Control Codes

Block and convolutional codes for reliable transmission of digital data over unreliable noisy channels. Algebraic and dsp characterizations of cyclic codes such as Bch/Rs codes. Decoding algorithms for block codes and the Viterbi algorithm. Graph codes and iterative decoding. Prereq., ECEN 3300.

College of Engineering & Applied Science Electrical & Computer Engineering Communications

ECEN-5692 (3) Principles of Digital Communication

Techniques for efficient and reliable transmission of information over bandwidth and power constrained communication channels; digital modulation methods, power spectral density calculations, optimum receiver principles, error rate analysis, channel coding potential in wired/wireless media, trellis coded modulation, and equalization. Prereqs., ECEN 3300 and 5612 or equivalents. Recommended prereqs., ECEN 5622 and 5632.

College of Engineering & Applied Science | Electrical & Computer Engineering | Communications

ECEN-5696 (3) Fourier Optics

Introduces a system level approach to the analysis and design of optical systems. Topics include holography, Fourier transform properties of lenses, two-dimensional convolution and correlation functions, spatial filtering, and optical computing techniques. Also covers coherent and incoherent imaging techniques, tomography, and synthetic aperture imaging. Prereqs., ECEN 3300 and 3410, or instructor consent. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-5737 (3) Adjustable-Speed AC Drives

Presents unified treatment of complete electrical drive systems: mechanical load, electrical machine, power converter, and control equipment. Emphasizes induction, synchronous, and permanent-magnet drives. Uses simulation programs (e.g., SPICE, Finite Element/Difference Program) to simulate drive system components (e.g., gating, inverter, electric machine). Prereq., Ecen 3170.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5743 (3) SW Engineering of Distributed Systems

Addresses engineering of networked applications and self-contained embedded system products involving multiple processors. The fundamental concepts of software engineering are complicated by an application running simultaneously and asynchronously on multiple processors over a network. Topics: specification, analysis, design, and testing of distributed components including concerns of security, synchronization, transaction coordination, data replication, web services, and service oriented architectures. Prereq., ECEN 4583 or 5543 or CSCI 5548. Recommended prereq., ECEN 5643. ECEN 4743 and 5743 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5753 (3) Computer Performance Modeling

Same as ECEN 4753 and CSCI 4753/5753.

College of Engineering & Applied Science | Electrical & Computer Engineering | Computer and Digital Systems

ECEN-5797 (3) Introduction to Power Electronics

Same as ECEN 4797. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Electrical & Computer Engineering Power

ECEN-5807 (3) Modeling and Control of Power Electronic Systems

Studies modeling and control topics in power electronics. Averaged switch modeling of converters, computer simulation, ac modeling of the discontinuous conduction mode, the current programmed mode, nulldouble injection techniques in linear circuits, input filter design, and low-harmonic rectifiers. Prereq., ECEN 5797.

College of Engineering & Applied Science Electrical & Computer Engineering Power

ECEN-5811 (3) Neural Signals and Functional Brain Imaging

Same as ECEN 4811 and ASEN 4216

College of Engineering & Applied Science Electrical & Computer Engineering Bioengineering

ECEN-5817 (3) Resonant and Soft-Switching Techniques in Power Electronics

Covers resonant coverters and inverters, and soft switching; sinusoidal approximations in analysis of series, parallel, Lcc, and other resonant dc-dc and dc-ac converters; state-plane analysis of resonant circuits; switching transitions in hand-switched and soft-switched Pwm converters; zero-voltage switching techniques, including resonant, quasi resonant, aero voltage transition, and auxiliary switch circuits. Prereq., ECEN 5797 or instructor consent required.

College of Engineering & Applied Science Electrical & Computer Engineering Power

ECEN-5821 (3) Neural Systems and Physiological Control

Same as ECEN 4821 and ASEN 4426/5426.

College of Engineering & Applied Science Electrical & Computer Engineering Bioengineering

ECEN-5827 (3) Analog IC Design

Same as ECEN 4827. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5830 (3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-5831 (3) Brains, Minds, and Computers

Same as ECEN 4831, and ASEN 4436/5436. Prerequisites: Restricted to any graduate students or Electrical/Computer Engineering or Electrical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Electrical & Computer Engineering | Bioengineering

ECEN-5837 (3) Mixed-Signal IC Design Lab

Software laboratory course extends the concepts developed in ECEN 4827 to full design and layout of mixed analog and digital custom integrated circuits. Assignments explore implementation of analog to digital and digital to analog converters, and final project develops a full custom IC for a target application. Prereq., ECEN 5827.

College of Engineering & Applied Science | Electrical & Computer Engineering | Power

ECEN-5840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the master's level. Numbered ECEN 5840-5849. Prereq., advisor consent.

College of Engineering & Applied Science | Electrical & Computer Engineering | General

ECEN-6016 (1-3) Special Topics

College of Engineering & Applied Science | Electrical & Computer Engineering | Optics

ECEN-6139 (3) Logic Synthesis of VLSI Systems

Studies synthesis and optimization of sequential circuits, including retiming transformations and don't care sequences. Gives attention to

hardware description languages and their application to finite state systems. Also includes synthesis for testability and performance, algorithms for test generation, formal verification of sequential systems, and synthesis of asynchronous circuits. Prereqs., ECEN 5139 and CSCI 5454.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [VLSI CAD Methods](#)

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ECEN

ECEN-6144 (3) Electromagnetic Boundary Problems

Provides mathematical and physical fundamentals necessary for the systematic analysis of electromagnetic fields problems. Covers basic properties of Maxwell's equations, potentials and jump conditions; scattering and diffraction by canonical structures; Green's functions, integral equations and approximate methods. Requires some maturity in electromagnetics. Prereq., ECEN 5114 or 5134 or instructor consent. Prerequisites: Restricted to graduate students in Electrical Engineering (EEEN) or Electrical/Computer Engineering (ECEN) or Electrical Engineering Concurrent or Electrical/Computer Engineering Concurrent Degree students only.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Electromagnetics](#)

ECEN-6800 (3) Master of Engineering Report

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-6940 (1) Master's Degree Candidate

Numbered ECEN 6940-6949.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-6950 (1-6) Master's Thesis

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-7438 (3) Theory of Nonlinear Systems

Nonlinear systems and control. Introduction to nonlinear phenomena: multiple equilibria, limit cycles, bifurcations, complex dynamical behavior. Planar dynamical systems, analysis using phase plane techniques. Input-output analysis and stability. Passivity. Lyapunov stability theory. Feedback linearization. Exploration of examples and applications. Prereq., ECEN 5448.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [Dynamical Systems and Control](#)

ECEN-7840 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840-7849. Prereq., advisor consent.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

ECEN-7849 (1-6) Independent Study

Offers an opportunity for students to do independent, creative work at the doctoral level. Numbered ECEN 7840--7849. Prereq., advisor consent.

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [VLSI CAD Methods](#)

ECEN-8990 (1-10) Doctoral Thesis

[College of Engineering & Applied Science](#) [Electrical & Computer Engineering](#) [General](#)

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Subject **Number**

ECON

ECON-1078 (3) Mathematical Tools for Economists 1

Teaches mathematical skills and logical thinking for use in economics. Topics include algebra, graphs, functions, and probability. The class includes many "Real world" examples and some illustrative computer assignments. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#)
[Economics](#)
[Quantitative Economics](#)

ECON-1088 (3) Mathematical Tools for Economists 2

Continuation of ECON 1078. Teaches mathematical skills for use in economics. Topics include derivatives, optimization, and integration. These skills are used on "real world" problems, and illustrated with computer assignments. Prereq., ECON 1078 or instructor consent. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, 1310, and APPM 1350.

[College of Arts & Sciences](#)
[Economics](#)
[Quantitative Economics](#)

ECON-2010 (4) Principles of Microeconomics

Examines basic concepts of microeconomics, or the behavior and the interactions of individuals, firms, and government. Topics include determining economic problems, how consumers and businesses make decisions, how markets work and how they fail, and how government actions affect markets. Credit not granted for this course and ECON 1000 and 1001. Meets MAPS requirements for social sciences: general. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Economics](#)
[Theory & History Economic Thgt](#)

ECON-2020 (4) Principles of Macroeconomics

Provides an overview of the economy, examining the flows of resources and outputs and the factors determining the levels of income and prices. Explores policy problems of inflation, unemployment, and economic growth. Prereq., ECON 2010. Credit not granted for this course and ECON 1000 and 1001. Meets MAPS requirement for social sciences: general. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-3070 (3) Intermediate Microeconomic Theory

Explores theory and application of models of consumer choice, firm and market organization, and general equilibrium. Extensions include intertemporal decisions, decisions under uncertainty, externalities, and strategic interaction. Prereqs., ECON 1000 or 2010; and either ECON 1078 and 1088, or MATH 1300, or MATH 1310, or MATH 1081, or MATH 1080, 1090, and 1100, or APPM 1350, or equivalent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-3080 (3) Intermediate Macroeconomic Theory

Introduces theories of aggregate economic activity including the determination of income, employment, and prices; economic growth; and fluctuations. Macroeconomic policies are explored in both closed and open economy models. ECON 3070 and 3080 may be taken in any order; there is no recommended sequence. Prereqs., ECON 1000 or 2020; and either ECON 1078 and 1088, or MATH 1300, or MATH 1310, or MATH 1081, or MATH 1080, 1090, and 1100, or APPM 1350, or equivalent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-3403 (3) International Economics and Policy

Examines national and supranational policies that affect the international economy, with attention to trade barriers, economic nationalism and regionalism, international political economy, exchange market intervention, and international transmission of economic perturbations. Prereqs., ECON 2010 and 2020. This course may not be taken after either ECON 4413 or ECON 4423. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Economic (ECON) majors are restricted from taking this course.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-3535 (3) Natural Resource Economics

Integrates economic analysis with life science aspects of natural resource systems to develop social policies for use of natural resources. Studies economists' approaches to resources policy analysis and applies them to energy, forestry, fisheries, mineral, and water systems. Prereq., ECON 2010. Credit not granted for this course and ECON 4535. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Economic (ECON) majors are restricted from taking this course.

College of Arts & Sciences | Economics | Natural Resources & Environ

ECON-3545 (3) Environmental Economics

Highlights causes of excessive environmental pollution and tools for controlling it through economic analysis, values of preservation, and distribution of costs and benefits from environmental protection programs. Prereq., ECON 2010. Credit not granted for this course and ECON 4545. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Economic (ECON) majors are restricted from taking this course.

College of Arts & Sciences | Economics | Natural Resources & Environ

ECON-3784 (3) Economic Development and Policy

Introductory course in Economic Development, designed for non-majors. Students are introduced to the major issues in development economics. Students will explore empirical, theoretical, and policy issues in economic development. Emphasis is placed on the controversial issues in this literature, requiring students to explore competing, and often conflicting, perspectives of these issues. Prereqs., ECON 2010 and 2020. Prerequisites: Economic (ECON) majors are restricted from taking this course.

College of Arts & Sciences | Economics | Economic Development

ECON-3818 (4) Introduction to Statistics with Computer Applications

Introduces statistical methods and their applications in quantitative economic analysis. Prereqs., ECON 2010 and 2020; and either ECON 1078 and 1088, or MATH 1300, or MATH 1310, or MATH 1081, or MATH 1080, 1090, and 1100, or APPM 1350, or equivalent.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4070 (3) Topics in Microeconomics

Studies utility maximization under uncertainty, risk, game theory, moral hazard, and adverse selection. Applications include insurance markets and the theory of contracts. Prereqs., ECON 3070 and 4808 or equivalent, or instructor consent.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-4111 (3) Money and Banking Systems

Discusses money, financial institutions and the monetary-financial system in a modern economy. Prereq., ECON 3080.

College of Arts & Sciences | Economics | Money and Banking

ECON-4211 (3) Economics of the Public Sector

Focuses on taxation and public expenditures. Topics include economic rationale for government action, economic theory of government

behavior, and effects of government policies on allocation of resources and distribution of income. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Public Economics

ECON-4221 (3) Political and Public Choice Economics

Explores decision-making in non-traditional market settings, specifically political market settings, using economic models. We investigate policy outcomes as the product of interactions among individuals in political markets, and analyze how governmental decisions are the result of rational optimizing behavior, even if they do not lead to policies that maximize national welfare. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Public Economics

ECON-4231 (3) Practicum: Applied Economic Analysis and Public Policy

Applies economic analysis to current issues of public policy. Reviews basic public finance and economic justifications for government action. Examines structure and procedures of Colorado State Legislature. Chooses current legislative issues, reviews relevant economic literature and applies implications through briefing papers and testimony at legislative hearings. Explores the challenges of integrating informed economic analysis into legislative process. Prereqs., ECON 3070, 3080, and 3818.

College of Arts & Sciences | Economics | Public Economics

ECON-4242 (3) Urban Economics: The Economics of Cities

Considers the economic forces which drive households and jobs to congregate in metropolitan areas. It then considers the forces within the city which determine how the established cities "look" - how rents vary with location, the distribution of jobs and households within a city, urban sprawl, and the sorting of households between neighborhoods. Finally it considers some government policies relating to land use and housing. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Urban & Regional Economics

ECON-4292 (3) Migration, Immigrant Adaptation, and Development

Examines historical and current patterns of migration with an emphasis in international movement. Looks at leading migration theories related to both origin- and destination-based explanations while critically looking at the role of development as a potential cause and consequence of population movement. Finally, covers some aspects of immigrants' social and economic adaptation to their host society. Prereq., ECON 3070. Same as GEOG 4292.

College of Arts & Sciences | Economics | Urban & Regional Economics

ECON-4309 (3) Economics Honors Seminar 1

For information consult the department's director of honors. Open only to qualified seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Economics Independent Study and Other

ECON-4339 (3) Economics Honors Seminar 2

For information consult the department's director of honors. This course does not count toward major requirements. Prereq., ECON 4309. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Economics Independent Study and Other

ECON-4413 (3) International Trade

Focuses on theories of international trade and its impacts on economic welfare. Analyzes commercial policy, including tariffs, non-tariff barriers, retaliation, regional integration, and factor migration. Prereq., ECON 3070.

College of Arts & Sciences Economics International Trade & Finance

ECON-4423 (3) International Finance

Covers balance of payments; foreign exchange market, income, trade, and capital flows; asset markets adjustment mechanisms; stabilization policies in an open economy; and problems of international monetary systems. Prereq., ECON 3080.

College of Arts & Sciences Economics International Trade & Finance

ECON-4504 (3) The New Institutional Economics: Institutions, Contracts and Economic Outcomes

Understand the conceptual tool kit of the New Institutional Economics. The concepts include transaction costs, property rights, credible commitment, and most importantly the roles of formal and informal institutions. We will examine the impact of institutions on contracting and organizations. The goal is to understand how the underlying institutions determine the degree to which societies improve their economic performance. Prereqs., ECON 3070, 3080 and 3818.

College of Arts & Sciences Economics Economic History

ECON-4514 (3) Economic History of Europe

Covers evolution of modern economic growth and development in Europe, emphasizing institutional change. Prereqs., ECON 3070 or 3080. Approved for arts and sciences core curriculum: historical context.

ECON-4524 (3) Economic History of the United States

Evolution of modern economic growth and development in the U.S. from colonial times to the present emphasizing institutional change. Prereq., ECON 3070. Approved for arts and sciences core curriculum: United States context.



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ECON

ECON-4534 (3) Chinese Economic History in Comparative Perspective

Surveys the economic history of China in a comparative perspective, to understand the history of economic development in China in terms of existing economic theories of growth. The approximate timeline is from the 18th century to the 20th century. Recommended prereq., ECON 3070.

[College of Arts & Sciences](#) [Economics](#) [Economic History](#)

ECON-4535 (3) Natural Resource Economics

Analysis of problems associated with socially optimal use of renewable and nonrenewable natural resources over time. Problems of common property resources, irreversible forms of development, and preservation of natural areas. Prereq., ECON 3070. Credit not granted for this course and ECON 3535.

[College of Arts & Sciences](#) [Economics](#) [Natural Resources & Environ](#)

ECON-4545 (3) Environmental Economics

Examines the effects of economic growth on the environment; application of economic theory of external diseconomies, cost-benefit analysis, program budgeting, and welfare economics to problems of the physical environment. Prereq., ECON 3070. Credit not granted for this course and ECON 3545.

[College of Arts & Sciences](#) [Economics](#) [Natural Resources & Environ](#)

ECON-4555 (3) Transportation Economics and Policy

Provides an overview of the characteristics and structure of transportation markets including aggregate demand, vehicle and mode choice, surface freight and air travel. Explores market failures in the transportation sector including market power and externalities such as pollution, congestion and accidents as well as policies aimed at addressing these issues. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences Economics Natural Resources & Environ

ECON-4616 (3) Labor Economics

Examines the influence of markets, unions, and government on labor allocation and remuneration. Analyzes human capital, discrimination, mobility and migration, productivity, unemployment, and inflation. Compares outcomes under competition with those in a world marked by shared market power and bargaining. Prereq., ECON 3070.

College of Arts & Sciences Economics Labor and Human Resources

ECON-4626 (3) The Economics of Inequality and Discrimination

Examines the unique insights available through economic analysis regarding the causes, mechanisms, and consequences of inequality and discrimination. Examines the extent of inequality, the varieties and extents of discrimination, and explores the economic models that suggest explanations. Prereq., ECON 3070. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Economics Labor and Human Resources

ECON-4646 (3) Topics in Health Economics

Growth in health expenditures worldwide over the past three decades has led to an increase in research in health economics and its importance in public policy in developed and developing countries. The purpose of this course is to encourage students to read, think, and do research on issues in health economics. This course will cover issues that are pertinent to the US, other developed and developing countries. It will cover the basics of health economics such as health production functions and the role for government as well as touching on topical issues such as health care reform. Prereq., ECON 3070. Recommended prereq., ECON 3818.

College of Arts & Sciences Economics Labor and Human Resources

ECON-4697 (3) Industrial Organization and Regulation

Explores neoclassical theory of the firm, the determinants of industrial structure, and the purposes and institutions of public policy to control or maintain a competitive environment. Prereq., ECON 3070. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Economics Industrial Organization

ECON-4774 (3) Economic Reform in Developing Countries

Explores competing paradigms of economic development, emphasizing the confrontation between the structuralist/dirigiste paradigm and the neoclassical public choice paradigm. Analyzes economic reforms under way in developing countries, including stabilization policy and structural adjustment. Also explores political reforms, including the pluralist revolution and the design of a constitutional framework in developing societies. Prereqs., ECON 3070 or 3080.

College of Arts & Sciences | Economics | Economic Development

ECON-4784 (3) Economic Development

Explores empirical, theoretical, and policy issues in economic development. Examines topics with reference to the developing countries: income distribution and poverty, demographic change, labor force employment and migration, human capital, physical capital, natural resources and the environment, industrial structure, international trade, and finance. Prereqs., ECON 3070 or 3080.

College of Arts & Sciences | Economics | Economic Development

ECON-4794 (3) Economic Growth

Introduces theories explaining why differences in standards of living among countries are so large. Examines a variety of data on historical experiences of economic growth. Surveys recent research on why some countries are so rich and some are so poor, and why some countries grow so quickly and others grow so slowly. Prereq., ECON 3070 or 3080.

College of Arts & Sciences | Economics | Economic Development

ECON-4797 (3) Topics in Industrial Organization: Antitrust and Regulation

Explores two major branches of Industrial Organization--antitrust and regulation. Focus is on developing qualitative and quantitative skills for the legal-economic analysis of issues and problems across a variety of industries. Case studies are used to illustrate concepts, including mergers, collusive agreements, monopolization, and networks. Individual and group projects help develop advocacy and public speaking skills. Prereq., ECON 3070.

College of Arts & Sciences | Economics | Industrial Organization

ECON-4808 (3) Introduction to Mathematical Economics

Introduces the use of mathematics in economics. Topics include vectors and matrices, differential calculus, and optimization theory, with economic applications. Prereqs., ECON 3070 and ECON 3818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4818 (3) Introduction to Econometrics

Provides undergraduate economics majors with an introduction to econometric theory and practice. Develops the multiple regression model and problems encountered in its application in lecture and individual applied projects. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4838 (3) Microcomputer Applications in Economics

Teaches basic concepts in Java programming applied to economic models. Development of Web pages and dynamic modeling will be introduced. Students will gain a foundation that can be applied to creating advanced applications relating to analysis of statistical data and custom projects. Prereqs., ECON 3070 and ECON 3818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4848 (3) Applied Econometrics

Introduces students to the practice of applied regression analysis. Summarizes and reviews the regression technique, explores U.S. census data sources, introduces an advanced statistical software package and provides structured exercises in regression analysis of census data. Concludes with independent research projects analyzing social and economic issues using regression analysis and census data. Prereqs., ECON 3070 and 3818 or equivalent.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4858 (3) Financial Econometrics

Introduces statistical models, estimation and testing procedures used in analyzing financial data for advanced undergraduates. Topics include the modeling of returns, portfolio theory, the capital asset pricing model, options pricing and fixed income securities. Prereq., ECON 3818 or equivalent. Recommended prereq., ECON 4818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4868 (3) Simulation Modeling in Microeconomics

Computer simulation modeling translates theory into computer code to examine questions numerically; for example, the effects of taxes or emissions permits on welfare and income distribution. We use GAMS (general algebraic modeling system); a version may be downloaded for free. Students must have access to a computer (not needed in the classroom). Prereq., ECON 3070.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-4897 (3) Economics of Organizations

Introduces students to the economic analysis of relationship between firms and incentives within firms. The first part covers classical theories of firm boundaries and contractual relationship between firms. The second part focuses on compensation and incentive issues within firms. Prereqs., ECON 3070 and 3818.

College of Arts & Sciences | Economics | Industrial Organization

ECON-4909 (3) Independent Study

May be repeated up to 6 total credit hours, but only 3 credit hours count for economics major. Prereqs., ECON 2010 and 2020; completion of at least 12 hours of ECON classes and instructor and department consent required. Offered only to students with a GPA of 3.00 or better.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-4939 (2-6) Internship/Seminar

Offers students the opportunity to integrate theoretical concepts of economics with practical experience in economics-related institutions. The theoretical portion arises from seminars and readings, the practical from activities in organizations related to the economics field. A maximum of 3 credit hours counts toward major requirements. Prereqs., ECON 3070 and 3080 and instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Economic (ECON) majors only.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-4999 (3) Economics in Action: A Capstone Course

Students read current periodicals, picking out topics in which economics plays a role in understanding events. Background reading is assigned on topics chosen. May not be taken more than once for credit. Prereqs., ECON 3070 and 3080, and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Economics | Independent Study and Other

ECON-6209 (3) Research Methods in Economics

Trains graduate students in scientific methodology and research in economics. Culminates in a research project that normally leads directly to thesis work. Prereqs., ECON 6070, 6080, 6808, and 6818.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-6555 (3) Water Resources Development and Management: Technology, Economics, Institutions

Offers a multidisciplinary exploration of the engineering, economic, and institutional principles involved in water system development and management. Provides a background in basic hydrology, economics, water law, and institutions. Prereq., ECON 3070 or equivalent. Same as CVEN 5393.

[College of Arts & Sciences](#) [Economics](#) [Natural Resources & Environ](#)

ECON-6774 (3) Economic Reform in Developing Countries

Covers stabilization policy and structural adjustment. Specific topics include orthodox stabilization policies (fiscal, monetary, and exchange rate policies); heterodox stabilization policies (price, wage, and interest controls); trade liberalization; financial liberalization; privatization and deregulation. Prereqs., ECON 6070 and 6080.

[College of Arts & Sciences](#) [Economics](#) [Economic Development](#)

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Courses

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ECON

ECON-6828 (3) Applied Time Series Analysis (Box-Jenkins) and Forecasting

Introduces first-year graduate students to time series approach of model building and forecasting. Basic topics are autoregressive integrated moving average models, nonstationarity and co-integration, vector autoregressions, and the evaluation of forecasts from such models. Emphasizes applied computer assignments. Prereqs., ECON 3818 and 4808, or equivalent.

College of Arts & Sciences Economics Quantitative Economics

ECON-6949 (1) Master's Candidate

College of Arts & Sciences Economics Independent Study and Other

ECON-6959 (1-6) Master's Thesis

College of Arts & Sciences Economics Independent Study and Other

ECON-7010 (3) Microeconomic Theory 1

Analyzes recent and contemporary literature on fundamentals of economic theory. Considers value theory with particular emphasis on methodology, theory of demand, theory of the firm, game theory, theory of distribution, general equilibrium theory, and welfare economics. Prereqs., ECON 3070, 3080; 6808 or MATH 1300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Economics Theory & History Economic Thgt

ECON-7020 (3) Macroeconomic Theory 1

Discusses behavior of consumption, investment, employment, production, and interest rates in the context of dynamic optimization models. Also considers government, economic growth, and business cycles. Prereqs., ECON 3070 and 3080. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-7030 (3) Microeconomic Theory 2

Continuation of ECON 7010. Prereq., ECON 7010.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-7040 (3) Macroeconomic Theory 2

Presents the theoretical and empirical application of dynamic macro programming models. Topics include consumption, investment, labor, money, and credit theories. Covers the theory of economic fluctuations and business cycles employing dynamic general equilibrium models. Prereq., ECON 7020.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-7050 (3) Advanced Economic Theory

Discusses advanced topics in game theory and general equilibrium. Prereqs., ECON 7010, 7030, 7818, 7828. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Theory & History Economic Thgt

ECON-7818 (3) Mathematical Statistics for Economists

Provides the mathematical foundation for Ph.D. level statistical inference in economic research. The primary topics of the course are probability theory and mathematical statistics including hypothesis testing and classical estimation with an emphasis on the method of maximum likelihood. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-7828 (3) Econometrics

Continuation of ECON 7818. Topics include regression analysis and extensions of the linear regression model to generalized least squares, time series data, and systems of equations. Prereq., ECON 7818.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8209 (3) Economics Research Methods Workshop 1

Assists students starting their doctoral thesis by discussing methodology and evaluation of economic research. Presents and discusses student research proposals. Prereqs., two ECON courses at the 8000 level. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-8211 (3) Public Economics: Fundamental Principles

Presents the fundamental principles of public goods, externalities, public choice, excess burden, optimal taxation, and tax incidence. Prereq., ECON 6211 or 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Public Economics

ECON-8219 (3) Economics Research Methods Workshop 2

Continuation of ECON 8209. Assists students starting their doctoral thesis by discussing relevant economic research. Presents and discusses research papers. Prereq., ECON 8209.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-8221 (3) Public Economics: Topics in Public Expenditures and Taxation

Explores advanced topics in public economics such as decentralization, state and local government, program analysis, taxation, international tax issues, political economy issues, and market failure. Prereqs., ECON 6211 or 7010, and 8211.

College of Arts & Sciences | Economics | Public Economics

ECON-8231 (3) Local Public Economics

Examines subnational governments and systems of governments, the effects of inter-governmental competition, appropriate tax and expenditure responsibilities, and variations in governing institutions. Covers congestible public goods, Tiebout mechanisms, and tax capitalization. Prereq., ECON 6211 or 7010.

College of Arts & Sciences | Economics | Public Economics

ECON-8252 (3) Seminar: Urban and Regional Economics 1

Covers basic theories in spatial location of economic activity and land use and the survey techniques developed to analyze, measure, and predict regional and urban structure and growth, such as economic base studies, regional social accounts, and input-output analysis. Prereq., ECON 6070 or 7010.

College of Arts & Sciences | Economics | Urban & Regional Economics

ECON-8262 (3) Topics in Urban and Regional Economics

Investigates various theoretical topics in urban and regional economics, focusing on policy issues. Involves student research and presentations. Prereq., ECON 6070 or 7010.

College of Arts & Sciences | Economics | Urban & Regional Economics

ECON-8333 (3) Globalization and Democratization: An Introduction

Introduces research on globalization and democratization from an interdisciplinary perspective. Examines ongoing interdisciplinary research on the global political economy. Students learn about ongoing research, critique current efforts, and design their own research project. Prereq., graduate standing in PSCI, ECON, GEOG, or SOCY. Same as PSCI 7333, SOCY 6031, and GEOG 5332.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-8413 (3) Seminar: International Trade Theory

Covers theories of comparative advantage, including the classical, factor-proportions, fixed-factor, and noncompetitive markets models. Examines trade policy including trade barriers, market distortions, strategic policy, regional integration, political economy, and factor migration. Prereq., ECON 6413 or 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-8423 (3) Seminar: International Finance

Highlights foreign exchange markets, past and current international monetary mechanisms, and processes of adjustment. Examines the role of international financial markets for the behavior of consumption, investment, saving, and production. Also considers international transmission of business cycles. Prereq., ECON 6423 or 7020.

College of Arts & Sciences | Economics | International Trade & Finance

ECON-8433 (3) Seminar: Topics in Money and International Economics

Explores advanced work in various aspects of international economics, such as empirical trade analysis, public choice, and interactions between real and monetary phenomena in the world economy. Prereq., ECON 6413, 6423, 8413, or 8423. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [International Trade & Finance](#)

ECON-8534 (3) Economic History of North America

Examines North America's past from the perspective of economics. Topics include growth and welfare in the colonial period; staple products, agricultural development, and the emerging industrialism in the antebellum period; transformation of the North American economy to 1914; the interwar years and the Great Depression; and economic integration since 1945. Prereqs., ECON 6070 and 6080, or ECON 7010.

[College of Arts & Sciences](#) [Economics](#) [Economic History](#)

ECON-8535 (3) Environmental Economics I

Considers the allocation of society's scarce environmental resources and government attempts to achieve more efficient and equitable allocations. It is a course in applied welfare economics with an emphasis on market failure and valuation. Prereq., ECON 6535 and 6808; or ECON 7010. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [Natural Resources & Environ](#)

ECON-8545 (3) Environmental Economics II

Provides advanced study of recent advances in environmental economics and explores opportunities for new research. Topics vary with interests of instructor and students. Prereqs., ECON 6535 and 6808, or ECON 7010 and ECON 8535. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [Natural Resources & Environ](#)

ECON-8555 (3) Water Resources Development and Management

Offers a research seminar in joint hydrologic-economic modeling and systems analysis. Addresses problems of joint water quantity-water quality management and joint surface-ground water management. Prereq., ECON 6555.

[College of Arts & Sciences](#) [Economics](#) [Natural Resources & Environ](#)



Courses

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Subject **Number**

ECON

ECON-8666 (1-3) Economic Demography

Investigates economic determinants and consequences of demographic behavior in developing and developed countries. Issues include fertility and female labor supply interactions, the demographic transition, the effect of population growth on income distribution, family investments in children, and intergenerational mobility. Prereqs., ECON 3070 and 3080.

[College of Arts & Sciences](#) [Economics](#) [Labor and Human Resources](#)

ECON-8676 (3) Seminar: Labor Economics 1

Focuses on the demand side of labor markets. Topics include standard static and dynamic models of labor demand, labor market discrimination, composition of compensation, labor hierarchies within enterprises, unionization, efficient contracts, and macroeconomics of labor markets. Prereq., ECON 6070 or 7010.

[College of Arts & Sciences](#) [Economics](#) [Labor and Human Resources](#)

ECON-8686 (3) Seminar: Labor Economics 2

Focuses on special topics in labor economics: dynamic theories of labor supply, employment, and unemployment; labor supply in a household framework; and labor market activity and income distribution. Explores both theoretical models and empirical tests in each area. Prereq., ECON 6070 or 7010. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Economics](#) [Labor and Human Resources](#)

ECON-8747 (3) Industrial Organization Theory

Highlights economics of regulation of industry and markets, industry studies, and the application of lab methods to industrial organization. Prereq., ECON 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Industrial Organization

ECON-8757 (3) Industrial Organization and Public Policy

Addresses the theory of interaction of firms within markets and industries, emphasizing importance of the number, relative size of firms, market institution, firm strategies, and nature of consumer demand. Examines neoclassical and game theoretic models, empirical industry studies, and laboratory tests of theoretical models and policies. Prereq., ECON 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Industrial Organization

ECON-8764 (3) History of Economic Development

Covers in historical perspective the causes of economic development including why some areas develop faster than others and why development occurs more rapidly in some eras than others. Prereqs., ECON 6070 and 6080, or ECON 7010. Same as HIST 7214. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Economic History

ECON-8774 (3) Seminar in Transition Economies

Focuses on the problems encountered in countries evolving from planned to market economies. Emphasizes applications of new and traditional models of economic growth and analysis of problems unique to formerly planned economies. Prereq., ECON 6774 or 7010.

College of Arts & Sciences | Economics | Economic Development

ECON-8784 (3) Economic Development

Explores empirical, theoretical, and policy issues in economic development. Examines political economy, income distribution and poverty, demographic change, labor force employment and migration, human capital, physical capital, natural resources and the environment, industrial structure, international trade and finance, stabilization policy, and structural adjustment. Prereqs., ECON 6774 or 7010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Economic Development

ECON-8828 (3) Seminar: Econometrics 1

First semester of two-semester sequence in econometrics for PhD students. Studies least squares and generalized least squares estimation of linear econometric models. Asymptotic (large sample) theory of inference. Some topics in the estimation of microdata. Prereq., ECON 7818. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8838 (3) Seminar: Econometrics 2

Teaches the advanced level of econometrics theory. Topics include asymptotic theory, maximum likelihood estimation, limited dependent variables analysis and other frontier areas of econometrics such as the method of moment estimation, semiparametric and nonparametric estimation procedure. Prereq., ECON 7828.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8848 (3) Applied Microeconometrics

Presents a "User's guide" to conducting empirical research in applied microeconomics. Begins with a primer on an industry-standard econometric software package including programming techniques and data management. Introduces advanced econometric techniques including panel data methods, IV, matching models, regression discontinuity, and limited dependent variables models. Concludes with a research project requiring a replication and/or extension of an existing published paper. Prereqs., ECON 7818 and 7828. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8858 (3) Computational and Structural Estimation Methods

Teaches students to construct a variety of applied economic models, obtain parameter values through calibration or estimation techniques, and uses the resulting models to conduct policy simulations. Prereqs., ECON 7010 and 7818. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Economics | Quantitative Economics

ECON-8909 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., instructor and department consent.

College of Arts & Sciences | Economics | Independent Study and Other

ECON-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Economic (ECON) graduate students are restricted from taking this course.

College of Arts & Sciences | Economics | Independent Study and Other



Courses

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Subject **Number**

EDUC

EDUC-2020 (1) Step 1: Inquiry Approaches to Teaching

Invites science and mathematics students to explore teaching as a career by providing first-hand experiences teaching science/math lessons in local elementary classrooms. Introduces theory and practice necessary to design and deliver excellent instruction. Master teachers provide ongoing support and feedback. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local elementary school. Prerequisites: Restricted to AMEN, ASTR, BCHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

[School of Education](#)
[Education](#)
[General Education](#)

EDUC-2030 (1) Step 2: Inquiry-Based Lesson Design

Builds on EDUC 2020 and further develops lesson design and inquiry-based teaching practice. Offers opportunity to explore teaching career and learn about middle school culture. Master teacher provides support as students design and deliver lessons in middle school classrooms. Emphasizes assessment of student learning. Meets weekly on CU campus (1.5 hours/week) and involves additional visits to local middle school. Prereq., EDUC 2020.

[School of Education](#)
[Education](#)
[General Education](#)

EDUC-2050 (1) Step into Humanities Teaching

Invites students in humanities and social sciences to explore teaching as a career by providing first-hand experiences teaching in local elementary and middle schools. Introduces theory and practice necessary to design and deliver excellent instruction. Students receive ongoing support and feedback from a classroom teacher. Meets weekly on CU campus (1.25 hours/week). Involves additional visits to local schools.

[School of Education](#)
[Education](#)
[General Education](#)

EDUC-2125 (3) History of American Public Education

Provides overview to evolution of American public schools by exploring major reform efforts from the common school movement to present. Considers contentious values, important players, and roots of school structures. Examines both what intellectuals were thinking about public education and how ordinary people experienced schools. Assesses how differences in race, class, ethnicity, gender, and power shape public schools.

School of Education | Education | General Education

EDUC-2150 (3) Education in Film

Provides opportunities to view and analyze how facets of education are represented (or misrepresented) in film. Considers narratives constructed about education and how those stories fuel popular conceptions of and assumptions about students, teachers, and schools. Examines how issues of race, class, and gender are embedded in how films represent schools, teachers, students, and communities.

School of Education | Education | General Education

EDUC-2400 (3) Cultural Diversity and Awareness

Enhances students' self-awareness in a variety of educational and cultural settings. Investigates self within a cultural context, inviting students to engage more deeply with their cultural assumptions and lenses, as well as the cultural practices and beliefs of other distinct groups. Explores themes relating to diversity through works of fiction, cultural contexts, contemplative practices, poetry, music and experiential activities.

School of Education | Education | General Education

EDUC-2625 (3) Teaching English as a Second Language

Exposes students to strategies used to teach English as a second or foreign language. Covers both theoretical and applied aspects of language learning and teaching. Exposes students to techniques, activities, strategies and resources to plan instruction for students learning English as a second language. Emphasizes oral language development, literacy and content-area instruction for teaching K-12 students.

School of Education | Education | General Education

EDUC-2800 (1-3) Special Topics

Designed to meet needs of students with topics of interest. May be repeated up to 12 credit hours.

School of Education | Education | General Education

EDUC-2910 (1-3) Field Practicum 1

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2920. May be repeated up to 6 total credit hours. Same as LDSP 2910.

School of Education | Education | General Education

EDUC-2919 (3) Renewing Democracy in Communities and Schools

Examines concepts of activism, citizenship, democracy, power, and diversity through classroom discussions and participation in a local high school's Public Achievement project. Through community-based partnerships, students will develop leadership skills; dialogue with diverse groups of people; identify multiple perspectives around controversial issues; and learn to use research and writing to articulate public problems and advocate for their solutions. May be repeated up to 6 total credit hours. Same as INVS 2919. Approved for arts and sciences core curriculum: human diversity.

School of Education | Education | General Education

EDUC-2920 (1-3) Field Practicum 2

Offers supervised campus and off-campus experiences tied to course work in the Chancellor's Leadership RAP or the INVST program. See also EDUC 2910. May be repeated up to 6 total credit hours. Same as LDSP 2920.

School of Education | Education | General Education

EDUC-3013 (3-4) School and Society

Introduces students - both future teachers and those simply interested in education - to pressing issues surrounding education within the United States. The course reveals the complex relationship between schools and the larger society of which they are a part. Examines issues of diversity and equity from different disciplinary lenses, including history, philosophy, sociology and anthropology. Approved for arts and sciences core curriculum: contemporary societies or human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education | Education | General Education

EDUC-3570 (3) Learning With Technology In and Out of School

Examines ways digital media are changing the way young people learn, play, make friends, and participate in civic life. Studies widely implemented digital tools intended to support literary, math, and science learning of children ages 4-18. Involves brief internship (5 hours outside class) and design projects that integrate these tools to transform in either a classroom or after-school program.

School of Education | Education | General Education

EDUC-3621 (1-3) Art for the Elementary Teacher

Introduces elementary education students to art education. Introduces many visual art techniques, art media, and processes used in art education. The class includes hands-on studio art experiences in a format that supports subjects such as literature, writing, music, and social studies. Emphasizes the role of art education and materials in supporting the artistic development and visual literacy of children. Prereq., completion of 30 hours of course work. Restricted to Education majors.

School of Education | Education | Elementary Education

EDUC-4015 (3) International / Comparative Education

Comparatively studies education in other countries, emphasizing its role in developing nations, with an emphasis on successful models in basic literacy, primary education, secondary curriculum, and teacher education. Analyzes political, social, and economic policies and ideologies for their relevance to the development process, including the role of international organizations: World Bank, UNICEF, UNESCO, Peace corps and Volunteer Agencies. Same as EDUC 5015.

School of Education | Education | General Education

EDUC-4023 (3-5) Differentiating Instruction in Diverse Secondary Classrooms

Focuses on teaching culturally and linguistically diverse secondary school students, special education students, and differentiation in the secondary classroom. Includes hands-on experiences in secondary school settings. Restricted to students admitted to the secondary or K-12 music teacher education program. Credit not granted for this course and EDUC 4351. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDRU, EDSP, EDSS or MMED majors only.

School of Education | Education | Secondary Education

EDUC-4050 (3) Knowing and Learning in Mathematics and Science

Explores current theories of learning in mathematics and science at the secondary level. This course focuses on the interrelation between learners' conceptual and sociocultural development. Students examine their own assumptions about learning, and critically examine the needs of a diverse student population in the classroom. Prerequisites: Restricted to AMEN, ASTR, BCHM, CHEM, EBIO, GEOL, IPHY, MATH, MCDB, PHYS, Arts and Sciences Open Option majors, College of Engineering majors, or Education minors only.

School of Education | Education | Secondary Education

EDUC-4060 (3) Classroom Interactions

Students design and implement instructional activities informed by what it means to know and learn mathematics and science, and then evaluate the outcomes of those activities on the basis of classroom artifacts. Students examine how content and pedagogy combine to make effective teaching. Same as EDUC 5060. Prerequisites: Restricted to School of Education (EDUC), Mathematics-Secondary

Education (EDMA) or Science-Secondary Education (EDSC) majors only.

School of Education Education Secondary Education

EDUC-4112 (3) Educational Psychology and Adolescent Development

Analyzes fundamental psychological concepts underlying classroom instruction, as well as adolescent growth and development. Same as PSYC 4114. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education Education Secondary Education

EDUC-4125 (3) Secondary World Language Methods

Presents and discusses issues in secondary school curriculum, instruction, and classroom management as they play out in world language classroom. Examines, analyzes, and evaluates a variety of teaching strategies, their effectiveness for students, and teacher dispositions to facilitate learning. Includes in-school experiences. Restricted to students admitted to the secondary teacher education program. Prerequisites: Restricted to EDEN, EDFR, EDGR, EDIT, EDJP, EDLT, EDMA, EDMU, EDSC, EDRU, EDSP, EDSS or MMED majors only.

School of Education Education Secondary Education

EDUC-4135 (3) Story and Memoir

Examines the questions of "who I am", "where I come from", "what I might become" and "what I am called to do" in order to remember as well as make sense of our lives. Introduces and discusses narrative theory and selected memoirs. Students engage in reflection on their own narrative, and evaluate their practical and analytic understanding of narrative practice. EDUC 4135 and 5135 are the same course.

School of Education Education Graduate Education

EDUC-4161 (1-3) Children's Literature

Addresses reading and evaluation of books, children's, interests, authors and illustrators, folk literature, multicultural literature, modern fanciful tales, and trends.

School of Education Education General Education

EDUC-4222 (3) Language Study for Educators

Focuses on the nature of linguistic development and performance. Examines works that reflect a range of scholarly approaches to language study, explores language use both in and out of school, takes up the relationships between language practices and power, and considers implications for classroom teaching. Same as EDUC 5222.

School of Education Education General Education

EDUC-4232 (3) Language and Literacy across the Curriculum

Explores the relationship between language and learning with the goal of developing teaching practices that engage students in using language as a tool for understanding and constructing meaning across the curriculum. Explores how language/literacy take on different forms and functions in different social contexts and academic disciplines. Restricted to students admitted to the secondary teacher education program. Same as EDUC 5235. Prerequisites: Restricted to undergraduate Science-Secondary Education (EDSC) or Mathematics-Secondary Education (EDMA) majors only.

[School of Education](#) | [Education](#) | [Secondary Education](#)

EDUC-4240 (3) African American and Latino Education in the United States

Explores development of schooling for African Americans in the U.S. and for Latinos in the American Southwest. Emphasizes parallels and points of intersection these groups experienced in their quest to access meaningful educational opportunities. Examines how social, economic, political, and judicial action defined and organized policy and practice for these two groups. EDUC 4240 and 6240 are identical courses. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) | [Education](#) | [General Education](#)

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Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

EDUC

EDUC-4295 (3) Reading and Literacy in the Secondary Classroom

Examines ways in which adolescents develop literacy through reading, writing, speaking, viewing, and listening. Students learn to plan and organize literacy instruction based on ongoing assessment, to draw on and develop learner's linguistic skills related to reading, to support learner's reading comprehension skills, and to support their learning through oral language development. Prerequisites: Restricted to undergraduate English - Secondary Education (EDEN) or English - Secondary Education (EDSS) majors only.

[School of Education](#) | [Education](#) | [Secondary Education](#)

EDUC-4311 (3) Children's Literature and Literacy Engagement in Elementary Schools

Prepares teacher education candidates for teaching children's literature in elementary schools. Participants will understand theoretical and developmental processes associated with literary learning, methods for teaching literature in a diverse society, and the integration of classroom instruction with the Colorado Academic Content Standards that foster such processes. Restricted to students admitted to the elementary education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

[School of Education](#) | [Education](#) | [Elementary Education](#)

EDUC-4312 (3) Perspectives on Science

Explores contemporary ideas and issues in the history, philosophy, and sociology of science education and science, science as a social and cultural activity, and how contemporary issues in science relate to and impact educational practice. Same as EDUC 5315.

[School of Education](#) | [Education](#) | [General Education](#)

EDUC-4318 (3) The Nature of "English Language Arts"

Considers historical and ongoing controversies concerning the nature of "English" as an academic field of study and of "English Language arts" as a school subject. Integrates understandings of subject-matter specialization, of approaches to teaching this contested subject, and of the diverse learners that teachers seek to prepare for 21st century literacies. EDUC 4318 and 5318 are the same course.

School of Education Education General Education

EDUC-4321 (4-5) Integrated Reading and Writing for Elementary Schools

Participants will engage theories and processes of literacy learning, reading and writing development, and equity-oriented teaching. Students will learn, develop, and enact instructional strategies and lessons to support all students' successful participation in a range of multimodal literacy practices embedded in reading and writing instruction in elementary classrooms. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education Education Elementary Education

EDUC-4331 (3) Elementary Social Studies Methods

Prepares teacher education candidates for teaching social studies in a social justice and equity context. Participants will understand theoretical and developmental processes associated with social studies learning, culturally responsive teaching pedagogy in social studies, methods for teaching social studies in a diverse society, and the integration of classroom instruction with the Colorado Academic Content Standards. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education Education Elementary Education

EDUC-4341 (3) Elementary Reading Assessment and Instruction

Builds on knowledge and teaching practices introduced in EDUC 4321. Addresses five critical components of reading. Refines understanding of research-based practices for diagnostic assessments and intensive intervention teaching strategies for elementary age learners. Prepares candidates to deliver a comprehensive reading curriculum in the elementary grades. Prereq., EDUC 4321. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

School of Education Education Elementary Education

EDUC-4342 (3) Composition for Teachers

Fosters understandings of diverse students' writing processes and the development of a repertoire of research-based teaching practices. Emphasizes writing as a tool for both developing and communicating understandings across a range of settings. Restricted to students admitted to the English or Social Studies teacher education program. Same as EDUC 5345. Prerequisites: Restricted to undergraduate English - Secondary Education (EDEN) or English - Secondary Education (EDSS) majors only.

School of Education Education Secondary Education

EDUC-4351 (3-5) Differentiating Instruction in Diverse Elementary Classrooms

Focuses on teaching culturally and linguistically diverse elementary school students, special education students, and differentiation in the elementary classroom. Includes hands-on experiences in elementary school settings. Restricted to students admitted to the elementary teacher education program. Coreqs., EDUC 5205 and 5215. Credit not granted for this course and EDUC 4023. Prerequisites: Restricted to Elementary (EDEL) or Music (EDMU) Education majors only.

School of Education | Education | Elementary Education

EDUC-4411 (3) Educational Psychology for Elementary Schools

Integrates theories and ideas from elementary school child development and educational psychology. Explores theories of learning and child development and considers implications for teaching motivation, and academic achievement. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

School of Education | Education | General Education

EDUC-4425 (3) Introduction to Bilingual/Multicultural Education

Provides a comprehensive survey of bilingual-multicultural education programs for language minority students. Includes an overview of the history and legislation related to bilingual education and English as a second language. Presents various models, philosophies, and theoretical underpinnings of bilingual education and ESL. Same as EDUC 5425.

School of Education | Education | General Education

EDUC-4460 (3) Teaching and Learning Physics

Learn how people understand key concepts in physics. Through examination of physics content, pedagogy and problems, through teaching, and through research in physics education, students will explore the meaning and means of teaching physics. Students will gain a deeper understanding of how education research is done and how people learn. Useful for all students, especially for those interested in physics, teaching, and education research. Prereqs., PHYS 3210 and 3310 or instructor consent. EDUC 4460 and 5460 are the same course. Same as PHYS 4460 and 5460.

School of Education | Education | Graduate Education

EDUC-4513 (2) Education and Practice

Meets during student teaching assignment. Includes topics of concern to teachers, such as classroom organization and management, lesson planning, assessment, journals, preparation of the teacher work sample, etc. Coreq., EDUC 4691, 4712, or 4722.

School of Education | Education | General Teacher Education

EDUC-4580 (3) Physics and Everyday Thinking

Engages non-physics majors in hands-on, minds-on activities and labs to investigate the physical world, the nature of science, and how science knowledge is constructed. This introductory course is especially relevant for future elementary and middle school teachers although it will meet the needs of most non-physics and non-science majors. Physics content focuses on interactions and energy. Additional assignments completed at 5000-level. Same as EDUC 5580.

[School of Education](#) [Education](#) [General Education](#)

EDUC-4610 (1-3) Math and Science Education

Introduces learning theory and teaching practices for mathematics and science learning assistants. Presents theoretical issues such as conceptual development, questioning techniques, cooperative learning, nature of math/science, and argumentation in mathematics and science. Restricted to students admitted to the Learning Assistant program.

[School of Education](#) [Education](#) [General Education](#)

EDUC-4691 (10) Student Teaching: Elementary School 1

Kindergarten through sixth grades. Prereq., completion of all education and content-specific arts and sciences requirements, and passing required licensure exam. Coreq., EDUC 4513. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

[School of Education](#) [Education](#) [General Teacher Education](#)

EDUC-4712 (10) Student Teaching: Secondary School

Student teacher apprentices in a middle/junior or senior high school. Must be admitted to a secondary teacher education program in English, Japanese, Latin, math, Russian, science, or social studies. Prereqs., completed all education and content-specific arts and sciences courses, and passed required licensure exam. Coreq., EDUC 4513.

[School of Education](#) [Education](#) [General Teacher Education](#)

EDUC-4716 (3) Basic Statistical Methods

Introduces descriptive statistics including graphic presentation of data, measures of central tendency and variability, correlation and prediction, and basic inferential statistics, including the t-test.

[School of Education](#) [Education](#) [General Education](#)

EDUC-4722 (5) Student Teaching: Secondary School 2

Student teacher apprentices in a middle/junior high or senior high school. Restricted to students admitted to a secondary teacher education program in French, German, or Spanish. Prereqs., completed all education and content-specific arts and sciences courses, and passed required licensure exam. Coreq., EDUC 4513. Prerequisites: Restricted to French-Secondary Education (EDFR), German-Secondary Education (EDGR), or Spanish-Secondary Education (EDSP) majors only.

School of Education Education General Teacher Education

EDUC-4732 (4-12) Student Teaching K-12

Required experience for music students seeking education at both elementary and secondary levels. Prereq., completed all education and content-specific music courses, passed required licensure exam. Coreq., MUSC 4193. Prerequisites: Restricted to Music Educ-Elem Sec or K-12 (EDMU) majors only.

School of Education Education General Teacher Education

EDUC-4800 (1-9) Special Topics

Designed to meet needs of students with topics of pertinent interest. May be repeated up to 18 total hours.

School of Education Education General Education

EDUC-4810 (1-9) Special Topics

May be repeated up to 18 total credit hours, provided the topics vary.

School of Education Education General Education

EDUC-4811 (3-4) Teaching and Learning Biology

Provides an introduction to recent research into student learning on the conceptual foundations of modern biology, together with pedagogical methods associated with effective instruction and its evaluation. Students will be involved in active research into conceptual and practical issues involved in biology education, methods to discover student preconceptions, and the design, testing and evaluation of various instructional interventions. Same as MCDB 4811 and EDUC 6811.

School of Education Education Graduate Education

EDUC-4822 (3) Teaching and Learning Chemistry

Explores issues related to how people learn and teach chemistry. Reviews high school and early college chemistry concepts both from the content and pedagogical perspectives. Delves into the chemistry education research, education, psychology, and cognitive science literature. Provides an opportunity to observe and/or teach K-12 or college chemistry classes.

EDUC-4831 (3) Advanced Peer Education

Second semester of an academic year's training for students interested in peer counseling. Expand upon what you learned in ARSC 2274. Focus on presentations, leadership, and group facilitation. Basic group leadership, facilitation theory, and technique taught. Co-create and co-lead your own small groups/presentations for other CU students. Offered only spring semesters. Prereq., ARSC 2274 or instructor consent.



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

EDUC

EDUC-4840 (1-4) Independent Study

[School of Education](#)
[Education](#)
[General Education](#)

EDUC-4910 (3) Peer Counseling Practicum (previously EDUC 4830, 4840)

Controlled enrollment. Repeatable for degree credit. Credit given for peer counseling activities. Students are selected to participate in this class and act as peer counselors or TAs for the peer counseling training.

[School of Education](#)
[Education](#)
[General Education](#)

EDUC-4912 (1) Practicum in Teacher Education

Provides in-school practicum experience.

[School of Education](#)
[Education](#)
[General Teacher Education](#)

EDUC-5005 (3) Advanced Social Foundations of Education

Critically examines the intellectual and political forces that shape the aims, policies, and practices of K-12 education in the United States, emphasizing the period following the Brown v. The Board of Education decision in 1954. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

[School of Education](#)
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EDUC-5015 (3) International / Comparative Education

Comparatively studies education in other countries, emphasizing its role in developing nations, with an emphasis on successful models in basic literacy, primary education, secondary curriculum, and teacher education. Analyzes political, social, and economic policies and ideologies for their relevance to the development process, including the role of international organizations: World Bank, UNICEF, UNESCO, Peace Corps and Volunteer Agencies. Same as EDUC 4015.

School of Education | Education | Graduate Education

EDUC-5035 (3) Proseminar: Parent and Community Involvement

Focuses on models and strategies for improving parent and community involvement in the schools. Discusses administrative concerns, such as parent advisory councils, and instructional concerns, such as helping children with school assignments.

School of Education | Education | Graduate Education

EDUC-5060 (3) Classroom Interactions

Same as EDUC 4060. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

School of Education | Education | Graduate Education

EDUC-5065 (3) Curriculum Theories

Examines four central curricular traditions: progressive; conservative; radical; and spiritual. Highlights the strengths and weaknesses of various writers within each tradition with attention paid to the conceptual features and the practical implications of each educational view. Encourages students to examine their own educational assumptions.

School of Education | Education | Graduate Education

EDUC-5070 (3) Spirituality and Religion in Education

Examines features of religion, spirituality, and a liberal arts education, so as to further understand the constitutional, historical and cultural constraints on, and acceptable approaches to the study of religion and spirituality in American education. Specifically explores aspects of a contemplative orientation and the degree to which such an orientation should/can be pursued in K-12 public and higher education. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5075 (3) Sociology in Education

In-depth analysis of theories and concepts in sociology and education. Evolution of curriculum, organization, and enrollment characteristics of American schools. Schooling, class, culture, gender, stratification, and educational reform in light of paradigmatic change in theories and concepts of sociology.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5085 (3) History of American Education

Highlights social and intellectual history perspectives of American educational history, major reform movements from the 19th century to Dewey, and assessment of how differences of race, class, ethnicity, religion, power, and gender affected American education. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5105 (3) Teaching for Understanding and Equity

Addresses perspectives and evidence-based teaching practices that promote equity and access to conceptual understanding. Introduces the knowledge base on effective and socially just teaching practices, and the theories and research that support these practices. Explores the impact of theory and research on classroom instruction.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5115 (3) Issues in School Change and Reform

Examines recent developments in teaching, and trends in the philosophy and practice of education. Focuses special attention on a variety of issues central to school reform.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5135 (3) Story and Memoir

Examines the questions of "who I am", "where I come from", "what I might become" and "what I am called to do" in order to remember as well as make sense of our lives. Introduces and discusses narrative theory and selected memoirs. Students engage in reflection on their own narrative, and evaluate their practical and analytic understanding of narrative practice. EDUC 4135 and 5135 are the same course. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5145 (3) Gender, Literacy, and the K-12 Classroom

Explores and critiques various conceptions of gender within popular and scholarly publications that have influenced how gender is

approached in classrooms. Builds a theoretical stance toward gender that supports equity, engagement and achievement for all children and youth. Discusses teaching strategies that thoughtfully take into account gender identities and equity.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5165 (3) Children's Literature

Involves reading and evaluation of picture books, and emphasizes children's interests, authors and illustrators, multicultural literature, the components of narrative, and the features of illustrations. Examines connections between children's literature and children's development as writers.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5205 (3) Elementary Mathematics Theory and Methods

Provides pre-service teachers opportunities to explore contemporary theories of learning, curriculum development, and pedagogical strategies pertaining to teaching elementary-level mathematics. Blends exploration in mathematical content with development of sophisticated mathematical models for teaching. Coreqs., EDUC 4351 and 5215. Restricted to elementary teacher education students. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

[School of Education](#) [Education](#) [Elementary Education](#)

EDUC-5215 (3) Elementary Science Theory and Methods

Provides pre-service elementary teachers opportunities to explore contemporary theories of learning, curriculum development, pedagogical strategies, and assessment. Blends scientific content, pedagogy, and practical applications. Coreqs., EDUC 4351 and 5205. Restricted to students admitted to the elementary teacher education program. Prerequisites: Restricted to Elementary Education (EDEL) majors only.

[School of Education](#) [Education](#) [Elementary Education](#)

EDUC-5222 (3) Language Study for Educators

Same as EDUC 4222. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5235 (3) Language and Literacy Across the Curriculum

Same as EDUC 4232. Prerequisites: Restricted to EDCI, EECD, EFPP, EPSY or REME graduate students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5245 (3) Foundations of Reading Instruction K-12

Comparatively analyzes current and emerging philosophies and programs in K-12 with focus on teaching reading and thinking skills. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5255 (3) Processes Involved in Literary Interpretation

Stresses curiosity, observation, challenge, and insight into how children and adolescents learn to become literate beings. Discusses the work and play of literary interpretation including analytic reading, substantive discussion, reflective writing, visual presentation, and dramatic enactment where readers learn to take the words from the page to inform and transform their worlds. Prereq., EDUC 5245.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5265 (3) Processes in Writing

Examines processes writers use from early ages to maturity by investigating current research and proposing and evaluating research designs. Discusses the reciprocal relationship between reading and writing instruction, emphasizing the Colorado Academic Content Standards and the International Reading Association Specialized Reading Professional Standards. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5275 (3) Assessment in Literacy

Assumes an interactive model of reading and supports the perspective of assessment as interrelated with curriculum and instruction; examines principles that guide the selection and interpretation of assessment techniques, with a particular focus on low-performing students. Prereq., EDUC 5255. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5285 (3) Reading Clinic Procedures K-12

Focuses learning on a select group of low performing students to assess reading proficiency, develop appropriate instructional goals, and provide instruction that addresses these goals. Emphasis on interpreting assessment data, extending a repertoire of instructional strategies, and developing and implementing a strong instructional plan. Prereq., EDUC 5275.

[School of Education](#) [Education](#) [Graduate Education](#)



Courses

Search by College, Department & Category

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All

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Subject Number

EDUC

EDUC-5295 (3) Reading and Literacy in the Secondary Classroom

Examines ways in which adolescents develop literacy through reading, writing, speaking, viewing, and listening. Students learn to plan and organize literacy instruction based on ongoing assessment, to draw on and develop learner's linguistic skills related to reading, to support learner's reading comprehension skills, and to support their learning through oral language development. Prerequisites: Restricted to EDCI or EPSY or EECD or EFPP majors only.

[School of Education](#) | [Education](#) | [Graduate Education](#)

EDUC-5315 (3) Perspectives on Science

Explores contemporary ideas and issues in the history, philosophy, and sociology of science education and science, science as a social and cultural activity, and how contemporary issues in science relate to and impact educational practice. Same as EDUC 4312.

[School of Education](#) | [Education](#) | [Graduate Education](#)

EDUC-5316 (3) Nature of Social Studies and Social Studies Education

Prepares teacher education candidates for teaching social studies in a social context. Participants will understand theoretical and developmental processes associated with social studies learning, methods for teaching social studies in a diverse society, and the integration of classroom instruction with the Colorado Academic Content Standards that foster such processes. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI), Social Studies-Secondary Educ. (EDSS), Anthropology (ANTH), Economics (ECON), Geography (GEOG), History (HIST) or International Affairs (IAFS) majors only.

[School of Education](#) | [Education](#) | [Graduate Education](#)

EDUC-5317 (3) Perspectives on Mathematics

Explores the historical development of mathematics as a human construct, and the relationship between the discipline and the contemporary school mathematics curriculum. Focuses on the sociology of mathematics education and how cultural traditions and societal needs influence the school mathematics curriculum and educational practice.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5318 (3) The Nature of "English Language Arts"

Considers historical and ongoing controversies concerning the nature of "English" as an academic field of study and of "English Language arts" as a school subject. Integrates understandings of subject-matter specialization, of approaches to teaching this contested subject, and of the diverse learners that teachers seek to prepare for the 21st century literacies. EDUC 4318 and 5318 are the same course. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5325 (3) Teaching Literature in Middle and Secondary Schools

Provides teachers of English with background and experiences relevant to using reading, writing, and a range of other classroom social languages to teach literature to a culturally and intellectually diverse population of students. Explores relevant literary theories, texts, and genres, and examines contemporary and historical perspectives on the meaning and function of stories in both personal and democratic public life. Restricted to students admitted to the secondary English education program. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI), English - Secondary Education (EDEN), or Social Studies-Secondary Educ.(EDSS) majors only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5345 (3) Composition for Teachers

Same as EDUC 4342. Prerequisites: Restricted to EDCI or EPSY or EECD or EFPP majors only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5355 (3-4) Methods and Materials in Secondary Social Studies

Focuses on curriculum, materials, methods, assessment, and related aspects of instruction. Introduces best practices in teaching the social studies in middle and high schools. Examines the Colorado Academic Content Standards. Prereqs., EDUC 4295/5295 and EDUC 5325. Restricted to students admitted to the secondary social studies teacher education program. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) or Social Studies-Secondary Educ. (EDSS) majors only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5365 (3-4) Methods and Materials in Secondary English

Focuses on curriculum, materials, methods, and assessment. Introduces best practices in the teaching of English in middle and high

schools. Examines the Colorado Academic Content Standards. Prereqs., EDUC 4295/5295 and EDUC 5325. Restricted to students admitted to the secondary English teacher education program. Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) or English - Secondary Education (EDEN) majors only.

School of Education | Education | Graduate Education

EDUC-5375 (3-4) Project-Based Math Instruction

Focuses on curriculum, materials, methods and assessment, and related aspects of instruction. Introduces best practices in teaching mathematics in middle and high schools. Examines the Colorado Academic Content Standards. Prerequisites: Restricted to EDCI, EDSC, or EDMA majors only.

School of Education | Education | Graduate Education

EDUC-5385 (3-4) Project-Based Science Instruction

Focuses on curriculum, materials, methods, assessment, and related aspects of instruction. Introduces best practices in teaching science in middle and high schools. Examines the Colorado Academic Content Standards. Prerequisites: Restricted to EDCI, EDSC, or EDMA majors only.

School of Education | Education | Graduate Education

EDUC-5425 (3) Introduction to Bilingual/Multicultural Education

Provides a comprehensive survey of bilingual-multicultural education programs for language minority students. Includes an overview of the history and legislation related to bilingual education and English as a second language. Presents various models, philosophies, and theoretical underpinnings of bilingual education and ESL. Same as EDUC 4425. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-5435 (3) Materials and Methods in Bilingual/ Multicultural Education

Provides an in-depth study of the curriculum options available for bilingual and ESL programs. Presents, reviews, and critiques specific methods and strategies for teaching language to minority students. Gives the opportunity to develop and present teaching units in Spanish or in ESL methodology, as appropriate. Prereq., EDUC 5425.

School of Education | Education | Graduate Education

EDUC-5445 (3) Curriculum for Multicultural Education

Analyzes curriculum programs and examines principles that inform innovation for education of diverse students at all school levels. Includes topics of ethnic, racial, socio-economic, linguistic, and gender diversity.

School of Education | Education | Graduate Education

EDUC-5455 (3) Literacy for Linguistically Different Learners

Presents current and emerging philosophies and methods on teaching reading to culturally diverse second-language learners. Includes review of materials, strategies for teaching reading and writing skills, and important considerations for transference from L1 to L2 reading. Prereq., Educ 5425 or reading course at 5000 level.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5460 (3) Teaching and Learning Physics

Learn how people understand key concepts in physics. Through examination of physics content, pedagogy and problems, through teaching, and through research in physics education, students will explore the meaning and means of teaching physics. Students will gain a deeper understanding of how education research is done and how people learn. Useful for all students, especially for those interested in physics, teaching, and education research. Prereqs., PHYS 3210 and 3310 or instructor consent. EDUC 4460 and 5460 are the same course. Same as PHYS 4460 and 5460. Prerequisites: Restricted to Graduate Students only.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5465 (3) Introduction to ESL/Bilingual and Special Education

Provides students with the fundamental information of ESL, bilingual and special education, including theories, assumptions, philosophies, and paradigms of bilingual and special education. Discusses successful teaching techniques and instructional approaches, including individualization, least restrictive environment, transition, and career education.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5485 (3) Differentiation in the Classroom

Focuses on teaching culturally and linguistically diverse school students, special education students, and differentiation in the classroom. Emphasizes evidence-based teaching practices and programmatic interventions that support student learning.

[School of Education](#) [Education](#) [Graduate Education](#)

EDUC-5505 (3) Education of Students with Learning and Behavior Disorders

Discusses unique learning needs of students with learning and behavior disorders. Emphasizes development of a systems model for diagnosis, programming, and remediation. Stresses data-based individualization of instruction, with emphasis on intervention in inclusive learning environments and developing a culturally responsive system.

School of Education Education Graduate Education

EDUC-5515 (3) Curriculum and Assessment for Special Learners

Emphasizes assessment of special education students from pre-referral through staffing and placement, including response to intervention, research-based assessment practices, analytic teaching and assessment, curriculum-based assessment and measurement. Selection, administration, and interpretation of formal and informal assessment devices are studied, with particular emphasis on cultural relevance and equity in assessment for special learners with mild to severe needs. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5525 (3) Research Issues in Special Education

Provides practical experience in the review, critique, conceptualization, and writing of research studies in special education. Also offers experience in design of evaluation systems for classroom practice. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5535 (3) Diagnostic Testing in ESL and Bilingual Education

Includes both theoretical and applied aspects of diagnostic testing. Reviews administration and interpretation of current formal and informal educational tests (language proficiency). Emphasizes practices for equitable testing and assessment of English language learners. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5545 (3) Strategies for Teaching Students with Special Needs

Provides teachers with specific evidence-based methods and techniques for teaching students with a wide variety of high and low disabilities including learning and language disabilities, hearing and visual impairments, physical disabilities, and health impairments. Emphasizes different teaching methods, instructional materials, and learning strategies that have proven effective working students with cognitive learning needs. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5555 (3-4) Practicum in Bilingual/Special Education

Offers supervised field experience in elementary and secondary special education class settings. Each credit hour requires 50 contact hours. Prereqs., EDUC 5465, 5505, and EDUC 5515 or 5545. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5575 (1-4) Workshop in Curriculum and Instruction

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Courses

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All

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Subject **Number**

EDUC

EDUC-5580 (3) Physics and Everyday Thinking

Same as EDUC 4580.

[School of Education](#)
[Education](#)
[Graduate Education](#)

EDUC-5595 (1-4) Practicum in Linguistically Different: English as a Second Language

University supervised, school-based field experience teaching linguistically different students, as well as assistance in the completion of EECD portfolio. Prereqs., EDUC 5425, 5435 and 5535. Prerequisites: Restricted to Graduate Students only.

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EDUC-5605 (3) Research Issues in Bilingual Education

Offers practical experience in the review, critique, conceptualization, and writing of research studies in bilingual/ESL education. Provides experience in the design of classroom evaluation systems. Prereq., EDUC 5425. Prerequisites: Restricted to Graduate Students only.

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EDUC-5610 (1-3) Math and Science Education

Introduces learning theory and teaching practices for mathematics and science learning assistants. Presents theoretical issues such as conceptual development, questioning techniques, cooperative learning, nature of math/science, and argumentation in mathematics and science.

School of Education Education Graduate Education

EDUC-5615 (3) Second Language Acquisition

Presents a broad survey of second-language acquisition research. Stresses theoretical concerns and research findings and practical applications to teaching second languages. Gives special emphasis to second-language acquisition. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5625 (3) Methods of Teaching English as a Second Language

Prepares teachers to teach English as a second language in public schools in the United States. Covers both theoretical and applied aspects of language learning and teaching. Recommended prereq., EDUC 5615.

School of Education Education Graduate Education

EDUC-5635 (3) Education and Sociolinguistics

Explores the discipline of sociolinguistics, the study of language variation and use, and its application within education settings. Not designed as an advanced sociology or linguistics course. Areas of study include language variation, speech communities, the ethnography of communication, speech and social identities, and sociolinguistic research related to teaching and learning.

School of Education Education Graduate Education

EDUC-5706 (3) Assessment in Mathematics and Science Education

Examines purposes and practices of assessment in mathematics and science education. Particular attention is given to application of theoretical foundations and contemporary research in the design and use of assessment techniques and tools to support teaching for student understanding. Addresses the role of effective formative assessment in teaching and learning.

School of Education Education Graduate Education

EDUC-5716 (3) Basic Statistical Methods

Introduces descriptive statistics including graphic presentation of data, measures of central tendency and variability, correlation and prediction, and basic inferential statistics, including the t-test. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-5726 (3) Introduction to Disciplined Inquiry

Considers various research approaches and methodologies included in education including experimental and quasi-experimental methods; anthropological and case study methods; evaluative research and field studies; correlational; and sociological, historical, and philosophical research. Topics include library research, research criticism, research design, and proposal writing. Prerequisites: Restricted to Graduate Students only.

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EDUC-5810 (3) Teaching K-12 Mathematics: Number Sense

Provides teachers opportunity to explore fundamental mathematical theories and pedagogical perspectives pertaining to the teaching and learning of number and operation. Engages students in explorations of mathematical content underlying number and operations, while highlighting relevant problem solving, reasoning and proof, and mathematical connections. Explores implications of teachers' mathematical learning on their classroom teaching. Develops practices supporting learner's number sense development.

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EDUC-5820 (3) Teaching K-12 Mathematics: Algebraic Thinking

Uses reform-based mathematics curricula to engage participants in algebraic thinking, to reflect on their own knowledge of algebraic concepts, and to examine pedagogical ideas that can foster K-12 students' algebraic thinking and learning. Algebraic topics include patterning, variable, functions, multiple representations, equality, and solving linear and systems of equations.

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EDUC-5822 (3) Teaching and Learning Chemistry

Explores issues related to how people learn and teach chemistry. Reviews high school and early college chemistry concepts both from the content and pedagogical perspectives. Delves into the chemistry education research, education, psychology and cognitive science literature. Provides an opportunity to observe and/or teach K-12 or college chemistry classes.

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EDUC-5830 (3) Teaching K-12 Mathematics: Geometry & Measurement

Provides an opportunity to explore how to foster geometric thinking while examining fundamental mathematical theory underlying the content area of geometry and measurement. Emphasizes investigative approach involving problem solving, reasoning, connections, and communication as well as learning mathematics content in a flexible and conceptual way. Challenges participants to apply their understanding to teaching practices that foster geometric thinking in K-12 learners.

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EDUC-5840 (3) Teaching K-12 Mathematics: Probability & Statistics

Focuses on teaching probability, data analysis, and statistics in K-12 classrooms. Explores curriculum and assessment strategies in the areas of probability and statistics. Examines research on students' thinking on stochastic tasks and how this research informs teaching practice. Emphasizes deepening of one's conceptual understanding of probability and statistics and their importance in the current information age.

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EDUC-6210 (3) Education Policy and the Law

Approaches education policy issues through the rich history of litigation and current legal challenges facing American K-12 schooling. Builds an understanding of the legal and policy development of the American schooling system, particularly in the 20th century. Laws and legal cases will be used as jumping-off points for broader discussions. Prerequisites: Restricted to Graduate Students only.

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EDUC-6220 (3) Gender Issues in Education

Provides a strong foundation in the various issues of gender and sexual diversity in education. Stimulates explorations into the ways the construct of "gender" affects and is affected by the educational system and process. Presents theory and research about contemporary educational issues related to sexism and homophobia. Encourages development of well-considered views about the various issues, research, and theories.

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EDUC-6230 (3) Ethics in Education

Investigates controversies in education from a self-consciously ethical perspective, drawing as appropriate from moral and political theory as well as law. Focuses on public education's role in fostering democratic citizenship and providing equal educational opportunity. Critically evaluates various education reform policies and curriculum policies. Applies method commonly used in medical ethics to make decisions regarding concrete ethically problematic cases.

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EDUC-6240 (3) African American and Latino Education in the United States

Explores development of schooling for African Americans in the U.S. and for Latinos in the American Southwest. Emphasizes parallels and points of intersection these groups experienced in their quest to access meaningful educational opportunities. Examines how social, economic, political, and judicial action defined and organized policy and practice for these two groups. EDUC 4240 and 6240 are identical courses.

School of Education Education General Education

EDUC-6318 (3) Psychological Foundations of Education

Introduces students to theoretical and empirical contributions of educational psychology, emphasizing applications to educational practices. Topics include learning, development, cognitive processes, social and cultural context, motivation, assessment, and individual differences. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-6325 (3) Culture and Ethnography in Education

Applies anthropological perspectives to research in educational settings. Focuses on theories of culture, cultural transmission and acquisition, and cultural reproduction and production for understanding schooling and its outcomes.

School of Education Education Graduate Education

EDUC-6328 (3) Advanced Child Growth and Educational Development

Introduces students to recent theoretical and research advances in the study of children and adolescent's cognitive, social and emotional development, with an emphasis on implications for learning in and out of school.

School of Education Education Graduate Education

EDUC-6368 (3) Adolescent Psychology and Development for Teachers

Examines current theory and research on adolescent development, learning, motivation, and academic achievement. Emphasizes how theory and research can inform instructional decisions in the secondary classroom. Restricted to English-Secondary Education (EDEN), Social Studies-Secondary Educ (EDSS), Mathematics-Secondary Educ (EDMA) or Science-Secondary Educ (EDSC) graduate students only. Prerequisites: Restricted to English-Secondary Education (EDEN), Social Studies-Secondary Educ (EDSS), Mathematics-Secondary Educ (EDMA) or Science-Secondary Educ (EDSC) graduate students only.

School of Education Education Graduate Education

EDUC-6504 (3) Issues and Methods in Cognitive Science

Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Prereqs., graduate standing or at least one upper-division course in computer science, linguistics, philosophy, or psychology. Same as CSCI 6402, LING 6200, PHIL 6310, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-6505 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint PhD in cognitive science. Prereq., graduate standing. Same as CSCI 7762, LING 7762, and PSYC 7765.

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EDUC

EDUC-6506 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as PSYC 7415, LING 7415, PHIL 7415, and CSCI 7412. Prerequisites: Restricted to Graduate Students only.

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EDUC-6516 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSYC 7415 or CSCI 7412 or EDUC 6506. Same as PSYC 7425, LING 7425, PHIL 7425, and CSCI 7422. Prerequisites: Restricted to Graduate Students only.

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EDUC-6804 (1-4) Special Topics

May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

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EDUC-6811 (3-4) Teaching and Learning Biology

Provides an introduction to recent research into student learning on the conceptual foundations of modern biology, together with pedagogical methods associated with effective instruction and its evaluation. Students will be involved in active research into conceptual and practical issues involved in biology education, methods to discover student preconceptions, and the design, testing and evaluation of various instructional interventions. Same as MCDB 4811 and EDUC 6811. Prerequisites: Restricted to Graduate Students only.

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EDUC-6844 (1-4) Master's Independent Study

School of Education | Education | Graduate Education

EDUC-6855 (1-4) Independent Study in Curriculum and Instruction--- Master's Level

School of Education | Education | Graduate Education

EDUC-6877 (1-4) Independent Study in Educational Equity & Cultural Diversity: Master's Level

School of Education | Education | Graduate Education

EDUC-6888 (1-4) Independent Study in Educational and Psychological Studies---Master's Level

School of Education | Education | Graduate Education

EDUC-6899 (1-4) Independent Study in Educational Foundations Policy & Practice--Master's Level

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EDUC-6915 (1-4) Practicum in Curriculum and Instruction

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EDUC-6916 (1-4) Practicum in Research and Evaluation Methodology

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EDUC-6917 (1-4) Practicum in Educational Equity and Cultural Diversity

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EDUC-6918 (1-4) Practicum in Educational and Psychological Studies

School of Education | Education | Graduate Education

EDUC-6919 (1-4) Practicum in Educational Foundations Policy and Practice

School of Education | Education | Graduate Education

EDUC-6925 (1-4) Readings in Curriculum and Instruction

School of Education | Education | Graduate Education

EDUC-6926 (1-4) Readings in Research and Evaluation Methodology

School of Education | Education | Graduate Education

EDUC-6927 (1-4) Readings in Educational Equity and Cultural Diversity

School of Education | Education | Graduate Education

EDUC-6928 (1-4) Readings in Educational and Psychological Studies

School of Education Education Graduate Education

EDUC-6929 (1-4) Readings in Educational Foundations Policy and Practice

School of Education Education Graduate Education

EDUC-6944 (1) Master's Degree Candidate

School of Education Education Graduate Education

EDUC-6954 (1-6) Master's Thesis

School of Education Education Graduate Education

EDUC-6964 (3) Capstone: Inquiry in the Content Areas

Supports students in using and building on the ideas and content encountered in previous coursework. Requires students to conceptualize, design and implement an original research project that will serve as exit requirement for the degree. Reads and engages in research and theory associated with Teacher Research (i.e. research conducted by teachers for professional purposes). Prerequisites: Restricted to Educ-Curriculum & Instruction (EDCI) graduate students only.

School of Education Education Graduate Education

EDUC-7015 (3) Teaching Internship in Teacher Education

One-semester teaching internship in an undergraduate or graduate foundations course.

School of Education Education Graduate Education

EDUC-7055 (3) Philosophy of Education

Examines exemplars of educational philosophy from ancient times to the present day, emphasizing their relevance and application to current controversies in education (e.g., free speech, multiculturalism, and affirmative action). Formerly EDUC 5055. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-7105 (3) Collaboration to Meet Special Needs

Covers effective collaboration practices involving the special education teacher, other educational personnel, students, and parents. Bilingual special education considerations in collaboration will be described. Issues regarding inclusion will be explored. Practical application to teaching and learning will be made. Strategies for disseminating information and collaborative activities will be discussed.

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EDUC

EDUC-7316 (3) Intermediate Statistical Methods

Studies sampling theory and inferential statistics; advanced applications for testing of hypotheses regarding central tendency, variability, proportion, correlation, and normality; chi-square and the analysis of frequency data; multiple regression and prediction; introduction to the analysis of variance; and related computer programs for statistical analysis. Prereq., EDUC 5716.

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EDUC-7326 (3) Experimental Design and Analysis 1

Focuses on experimental and quasi-experimental designs in educational research; applications of the general linear model; power and statistical efficiency; randomization and control; multiple comparisons; factorial experiments and interaction with fixed-factor and mixed design; analysis of covariance; effects of assumption violations; and related computer programs for statistical analysis. Prereqs., EDUC 5726 and 7316.

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EDUC-7336 (3) Methods of Survey Research and Assessments

Examines theory and techniques involved in each stage of survey research, including problem formulation, questionnaire development, interview and mailed surveys, assessing reliability and validity, sampling plans, data reduction (e.g., factor analysis), and analysis of continuous and categorical data. Prereqs, EDUC 5726 and 7316.

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EDUC-7346 (3) Ethnographic Methods in Educational Research

Explores the history of ethnography and its translation into educational research. Students practice participant observation, interviewing, journal writing, artifact searches, qualitative analysis and interpretation, and styles of reporting. Prereq., EDUC 6325 or equivalent doctoral level course in anthropological or sociological theory, or sociology of education.

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EDUC-7376 (3) Theory and Practice of Educational and Psychological Measurement

Introduces theories of measurement and applications, and presents classical test theory. Includes quantitative concepts, methods, and computational techniques for the development, application, and evaluation of measurement instruments in social/ behavioral science and education. Prereq., EDUC 5716.

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EDUC-7386 (3) Educational Evaluation

Builds an understanding of the range of approaches taken by educational evaluators, focusing particularly on the evaluation of programs. Explores the nature of different evaluation perspectives and how these disparate views translate into methodological and conceptual models. Students develop a familiarity with the most common and influential approaches to evaluation.

School of Education | Education | Graduate Education

EDUC-7396 (3) Multivariate Analysis

Introduces contemporary advanced multivariate techniques and their application in social science research. Methods include multivariate regression and analysis of variance, structural equation models, and hierarchical/multi-level models. Prior experience with Anova and multiple regression is assumed. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-7416 (3) Seminar: Research Methodology

Presents selected topics for advanced study in educational research, statistics, measurement, and evaluation.

School of Education | Education | Graduate Education

EDUC-7436 (3) Item Response Theory

Includes one-, two-, and three-parameter logistic models for dichotomously-scored items and partial credit models for polychotomously-scored items; applications of the models to problems such as equating of test forms, test design, computerized adaptive testing, and the detection of item bias. Prereqs., EDUC 7316, 7376.

School of Education Education Graduate Education

EDUC-7446 (3) Seminar: Policy Issues in Education

Explores major policy issues confronting U.S. education and examines the nature and undertaking of educational policy studies. Learn to approach policy issues from a contextual perspective that highlights systemic forces and analyzes and applies differing policy instruments. While a wide variety of policies are covered in the course, it particularly emphasizes issues of educational equity.

School of Education Education Graduate Education

EDUC-7456 (3) Advanced Multivariate Methods: Multi-level and Latent Variable Modeling

Covers in depth two advanced multivariate models common to social science research: latent variable (structural equation) models and multi-level (hierarchical) models. Topics may be taught with a particular analytic context, such as measurement of change (longitudinal analysis) or experimental design. Prereq., EDUC 7396 or equivalent.

School of Education Education Graduate Education

EDUC-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, PSYC 7775, SLHS 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-8014 (3) Doctoral Seminar: Multiculturalism and Education

Addresses the sociopolitical context of multiculturalism and education, and the sociocultural context of learning. Examines critical issues involved in making schooling responsive to an increasingly multicultural and multilingual society. Required for all doctoral students. Prereqs., EDUC 8210, 8220, 8230 8240, 8250 and 8260. Prerequisites: Restricted to EDCl, EECD, EPSY, EFPP or REME PhD graduate students only.

School of Education Education Graduate Education

EDUC-8025 (3) Seminar: Curriculum Theories

Examines in depth recent developments in curriculum theory highlighting conceptual, contextual, and normative issues. Substantially explores distinct curricular traditions, corresponding conceptions of the good life along with related approaches to reason and emotion. Focuses on the works of prominent curriculum theorists.

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EDUC-8045 (3) Philosophical Issues in Educational Research

Familiarizes students with important concepts and issues from the philosophy of science and, to a lesser extent, political theory and ethics; grounds such concepts and issues in the literature (often in terms of primary philosophical sources); and stimulates students to apply this material to the field of educational research in an informed way. Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

School of Education | Education | Graduate Education

EDUC-8055 (3) Theoretical Issues in Education Policy

Provides students with an examination of the theories behind education policy analysis. Takes a thematic approach to the study of policy in order to understand how policy agendas are set; how democratic deliberation should be linked with research and policy; and the relationship between politics, social structures, research, and policies. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

School of Education | Education | Graduate Education

EDUC-8125 (3) Seminar: Radical Education Theories

Examines radical analyses, based on class, gender, and race, that public schooling in the U.S. maintains a dynamic of oppression and domination that undermines the schools' democratic premise. Scrutinizes the conceptual framework, interpretive and explanatory adequacy, and ethical justification of radical claims.

School of Education | Education | Graduate Education

EDUC-8135 (3) Seminar: Research on Teaching

Provides an historical perspective of research on teaching, focusing on the evolution of conceptual frameworks, research methods, and research findings. Examines substantive and methodological issues that underlie contemporary research on teaching. Explores areas of research including teacher knowledge and beliefs, teaching for understanding, understanding student thinking, motivation and volition, and classroom assessment.

School of Education | Education | Graduate Education

EDUC-8145 (3) Seminar: Research on Teacher Education and Learning to Teach

Explores substantive and methodological issues that underlie current research on learning to teach, teacher education, and teacher professional development. Considers the learning and development of experienced and novice teachers, with an emphasis on learning to teach in ways that conform to reform-based educational ideas.

School of Education Education Graduate Education

EDUC-8155 (3) Advanced Topics in Literacy Education

Examines special topics in theory and research related to literacy and literacy education. Topics vary each semester. May be repeated up to 12 total credit hours.

School of Education Education Graduate Education

EDUC-8165 (3) Advanced Topics in Mathematics Education

Examines special topics in theory and research related to mathematics education. Topics vary each semester. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

School of Education Education Graduate Education

EDUC-8175 (3) Advanced Topics in Science Education

Examines special topics in theory, research, and assessment related to science education. Focuses on the development of the doctoral prospectus. Provides opportunities for students to defend their own work and to critique the work of their peers. Topics range from theoretical framing to presenting and defending one's work. May be repeated up to 12 total credit hours.

School of Education Education Graduate Education

EDUC-8210 (3) Perspectives on Classroom Teaching and Learning

Introduces students to various paradigms within educational research and how they are employed to study teaching and learning in K-12 classrooms. Includes an analysis of the theories, assumptions, questions, methods, and findings associated with each of them. Prerequisites: Restricted to EDCL, EECD, EPSY, EFPP or REME PhD graduate students only.

School of Education Education Graduate Education

EDUC-8220 (3) Introduction to Educational Research and Policy

Introduces conceptual and empirical issues and controversies in educational research and policy. Complements other doctoral courses in quantitative and qualitative methodology. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8230 (3-4) Quantitative Methods I

Explores the use of statistics to formalize research design in educational research. Introduces descriptive statistics, linear regression, probability, and the basics of statistical inference. Includes instruction in the use of statistical software, (e.g., SPSS.). Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC

EDUC-8240 (3-4) Quantitative Methods II

Continues the exploration of research design in the social sciences, especially the evaluation of the quantitative research reported in professional journals. Introduces instances of the general linear model (both multiple regression and ANOVA) and its application to educational research. Prereq., EDUC 8230 or equivalent. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8250 (3) Qualitative Methods I

Introduces students to the theory and practice of qualitative research in education. First of a two-course sequence covering research design, theoretical perspectives, and methods. Preference given to first-year doctoral students in education. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8260 (3) Qualitative Methods II

Builds on EDUC 8250 to develop knowledge and skills in ethnographic and case study research. Second of a two-course sequence covering qualitative research design, theoretical perspectives, and methods. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC-8348 (3) Seminar: Human Development

Intensive study of selected topics in human development. The focus of the seminar will vary depending on the instructor's expertise and

students' interests; may repeat for credit more than once. Recent topics include adolescent development in social context, Vygotsky and Cultural-Historical Activity Theory, and teaching and learning in and out of school. Prereqs., EDUC 6318, EDUC 8210, or instructor consent. Prerequisites: Restricted to Graduate Students only.

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EDUC-8358 (3) Seminar: Human Learning

Intensive study of selected topics in human learning. The focus of the seminar will vary depending on the instructor's expertise and students' interest; may repeat for credit more than once. Recent topics include sociocultural, situated, and other approaches to understanding the role of discourse in learning and teaching disciplinary content in school. Prereq., EDUC 6318, EDUC 8210, or instructor consent.

School of Education | Education | Graduate Education

EDUC-8605 (3) Research and Professional Ethics for Educational Researchers

Examines the central issues and venerable theories of philosophical ethics that have historically framed research ethics. Also examines contemporary ethical theory that emphasizes a greater attention to the social sciences. Focuses on research ethics (both research of human subjects and research misconduct), various issues of professional academic ethics, and the AERA ethical code. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-8610 (3) Advanced Topics in Educational Equity and Cultural Diversity

Examines special topics in theory and research related to educational equity and cultural diversity in education. Topics vary each semester. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-8615 (3) Language Issues in Education Research

Examines ways in which issues of language can affect the validity of educational research. Discusses how language can be properly addressed with a multidisciplinary perspective through different stages in the process of an investigation, including design, sampling, data collection, and data analysis. Provides the conceptual basis for addressing linguistic diversity from a multidisciplinary perspective. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-8710 (3) Measurement in Survey Research

Introduces students to classical test theory and item response theory. Emphasizes the process of developing, analyzing and validating a survey instrument. Focuses on developing a survey instrument with items that derive from a clearly delineated theory for the construct to be measured. Analyzes item responses and put together a validity argument to support the proposed uses of the survey. Prerequisites: Restricted to Graduate Students only.

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EDUC-8720 (3) Advanced Topics in Measurement

Focuses on psychometric models for measurement and their applications in educational and psychological research. Emphasizes understanding and evaluating the utility of models from item response theory (IRT). Applies and compares measurement models in the context of simulated or empirical data sets. Recommended prereq., EDUC 8710.

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EDUC-8730 (3) Advanced Qualitative Data Analysis

Requires students begin semester with qualitative data already collected (from class project, pilot study, dissertation). Focuses on three approaches to data analysis: reconstruction, coding (deductive and inductive), and constant comparative method. Students apply these approaches to their own data. Instructors customize part of course to address specific topic of expertise, e.g., discourse analysis, video analysis, textual analysis, ethnographic analysis. May be repeated up to 12 total credit hours.

School of Education | Education | Graduate Education

EDUC-8740 (3) Advances in the Assessment of Student Learning

Focuses on theories underlying traditional and contemporary proposals for assessment of student learning, and design and research of large-scale and classroom-based methods to assess student learning. Explores intersections between large-scale and classroom assessment, although gives greater attention to issues related to classroom assessment. Prerequisites: Restricted to Graduate Students only.

School of Education | Education | Graduate Education

EDUC-8804 (3) Special Topics

Designed to meet needs of graduate students with topics of pertinent interest. Prerequisites: Restricted to Graduate Students only.

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EDUC-8844 (1-4) Doctoral Independent Study

School of Education | Education | Graduate Education

EDUC-8855 (1-4) Independent Study in Curriculum and Instruction: Doctoral Level

School of Education | Education | Graduate Education

EDUC-8866 (1-4) Independent Study in Research and Evaluation Methodology: Doctoral Level

School of Education | Education | Graduate Education

EDUC-8877 (1-4) Independent Study in Educational Equity and Cultural Diversity: Doctoral Level

School of Education | Education | Graduate Education

EDUC-8888 (1-4) Independent Study in Educational and Psychological Studies: Doctoral Level

School of Education | Education | Graduate Education

EDUC-8899 (1-4) Independent Study in Educational Foundations Policy and Practice: Doctoral Level

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EDUC-8935 (1-6) Internship in Curriculum and Instruction

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EDUC-8936 (1-6) Internship in Research and Evaluation Methodology

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EDUC-8937 (1-6) Internship in Educational Equity and Cultural Diversity

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EDUC-8938 (1-6) Internship in Educational and Psychological Studies

School of Education | Education | Graduate Education

EDUC-8939 (1-6) Internship in Educational Foundations Policy and Practice

School of Education | Education | Graduate Education

EDUC-8950 (3) Prospectus and Dissertation Writing

Provides students with ongoing opportunities to write social science research in the context of the design, analysis and data representation, development, and write-up of students' dissertation proposals and dissertations. Students will learn to expand how they think about and use evidence, clarify their ideas and arguments, and improve their writing. Students working on proposals and dissertations should enroll. Prerequisites: Restricted to EDCI, EECD, EPSY, EFPP or REME PhD graduate students only.

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EDUC

EDUC-8994 (1-10) PhD Doctoral Dissertation

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EHON

EHON-1151 (3) Critical Encounters

Explores critical, literary and philosophical approaches to the following related problems: 1) how we organize knowledge and construct meaning, and 2) how we locate a sense of self as both individuals and members of various groups amidst the resources and demands of competing interpretations, traditions challenges and circumstances. Prereq., honors standing or instructor consent required. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Engineering Administration](#)

EHON-1500 (1) Honors Reading Group

Faculty led reading seminars, focusing on specific text or texts chosen by the faculty. Special attention will be paid to group formation and the process of collaborative learning. Restricted to Engineering Honors Program (PHEN) students only or instructor consent required. Prerequisites: Restricted to Engineering Honors Program (PEHN) students only.

[College of Engineering & Applied Science](#) | [Engineering Administration](#)

EHON-4051 (1) Dimensions of Leadership

Explores the many dimensions of leadership that exceed technical knowledge: the ethical, societal, cultural, interpersonal, and personal. Through seminars, workshops and exposure to leaders, students will reflect upon their engineering education in light of the multifaceted demands of effective leadership and their own personal career goals. Students will take an active role in shaping the course. Prereq., junior standing; honors standing or instructor consent. Repeatable for credit up to 3 credit hours.

[College of Engineering & Applied Science](#) | [Engineering Administration](#)



Courses

Search by College, Department & Category

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Search by Course Number

Subject **Number**

EMEN

EMEN-4030 (3) Project Management Systems

Acquaints the student with multidisciplinary aspects of project management, including the relationship between schedule, project cost, and performance. Uses qualitative and quantitative tools to facilitate project management skills. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) | [Engineering Management](#)

EMEN-4050 (3) Leadership and Professional Skills

Provides basic concepts of leadership and the essential skills required to become an effective leader/manager. Students will be provided the opportunity for personal development through exercises in communication and leadership effectiveness. Other major topics include leadership styles, managing commitments, change management, negotiation, conflict resolution, organizational culture, emotional intelligence, team dynamics, and business ethics. Restricted to seniors in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Engineering Management](#)

EMEN-4100 (3) Business Methods and Economics for Engineers

Covers cost concepts, financial statements, and the company economic environment. Includes concepts and methods of analysis of the time value of money, comparison of project alternatives before and after taxes, cash flows, replacement analysis, risk management, and financial cash statements. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) | [Engineering Management](#)

EMEN-4800 (3) Technology Ventures and Marketing.

Acquiring basic management and marketing skills is essential to successfully participating in technology venture development whether in a start-up company or Fortune 500 company. In the course, students learn to evaluate a technology, consider its viability as product, and learn the basic tenets of marketing with emphasis on developing a technology innovation into a commercially successful product with a mind on customer development as a key aspect of product development. Restricted to junior or senior in the College of Engineering and Applied Science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Engineering Management

EMEN-4825 (3) Entrepreneurial Business Plan Preparation

Instructs students in the necessary elements of a business plan and how to prepare a complete well-written plan for an entrepreneurial business venture. Students work in interdisciplinary business-engineering five-person teams to create a business concept and take it through to business plan completion. Same as ESBM 4830. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Engineering Management

EMEN-4830 (1-3) Special Topics

College of Engineering & Applied Science | Engineering Management

EMEN-5000 (3) Engineering Analysis

Provides an introduction to the logical and systematic thinking required to evaluate and solve typical engineering problems in mechanics, electricity, thermodynamics, fluid mechanics, and light. Emphasizes understanding the physical behavior of systems and applying the principles and laws from the physical sciences to analyze these systems. Required for nonengineers seeking admission to the graduate technology management curriculum track. Not for degree credit. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5005 (3) Introduction to Applied Statistical Methods

Covers foundations for statistical reasoning and statistical applications. Topics include descriptive statistics, introduction to probability, random variables, discrete and continuous probability distributions, sampling theory and sampling distributions, statistical inference (point and interval estimation and hypothesis testing), and simple regression. All material taught is based upon case studies from business and industry. Restricted to students with 57-180 credits (Junior or Senior) or graduate students only. Not for EMP degree credit. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) or graduate students only.

College of Engineering & Applied Science | Engineering Management

EMEN-5010 (3) Introduction to Engineering Management

Provides a general introduction to the principles and methods of technical management covering a variety of topics in leadership, strategic planning, product management, entrepreneurship, finance, value chains, management of R&D, and economic environments. Industry guest speakers provide real-life examples and applications. Required for all degree students. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5020 (3) Finance and Accounting for Engineering Managers

Provides the concepts and skills necessary to financially analyze project and assess financial performance and status of an organization. Includes the time value of money, comparison of alternatives, taxes, risk management, cash flow, and financial cash statements. Required for all degree students. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5025 (3) Entrepreneurial Finance for Engineers

Teaches students to prepare, interpret and use financial information, in the context of startup and early stage enterprises. Includes historical financial statements, budgets and the budgeting process, and the use of financial information in raising capital. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5030 (3) Project Management

Presents the basic skills required to manage a wide range of technical projects. Topics include selecting project alternatives, managing project teams, developing project plan elements, risk management, monitoring and controlling projects, and financial analysis of projects. Skills learned are applied to a representative project. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5031 (3) Software Project Management

Understand unique considerations of the software lifecycle that impact project management. Emphasize configuration management, code reviews, architectural influences, and quality assurance with automated testing. Explore Capability Maturity Model (CMM) and Unified Modeling Language (UML) impact on project success. Recommended prereq., some software development experience. Same as ECEN 5603 and CSCI 5608. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5032 (3) Advanced Topics in Project Management

Covers advanced topics in project management from a systems view based on the Project Management Body of Knowledge (PMBOK); spans the entire project life cycle. Prereq., EMEN 5030 or equivalent. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5040 (3) Quality, Strategy, and Value Creation

Introduces business performance excellence (BPE) including history of Quality Sciences, Six Sigma, and Deming's Theory of Profound Knowledge. Addresses use of strategic planning, policy deployment, and Total Asset Utilization to exceed customer requirements and maximize profitability. Addresses topics strategically and tactically through case analysis, field study, and experiential learning. Prereq., EMEN 5005 or equivalent. Non-EMP students require instructor permission. Similar to OPIM 6030. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5041 (3) Advanced Topics in Value Creation

Studies methods designed to maximize excellence in business performance. Advanced study includes interactions with the customers and suppliers, integrated manufacturing, and meeting customer requirements while focusing on maximizing profitability. These characteristics are addressed both strategically and tactically through the use of case analysis, field study, and experiential learning for both the production and service sectors. Prereq., EMEN 5040. Recommended prereq., EMEN 5042. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5042 (3) Methods for Quality Improvement

In-depth investigation of the concepts, tools, and techniques used in the management and measurement of quality and productivity. Topics include basic statistics and probability; process variation; statistical process control charting and capability analysis for process, product, and management systems; and an introduction to design of experiments (DOE) in business and industry. Prereq., EMEN 5040 or instructor consent. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5043 (3) Advanced Topics in Quality Systems/ Engineering

Advanced study of methods, tools, techniques, and systems associated with advanced quality applications. Includes a survey of advanced process control technologies, control schemes, and measurement system analysis. Prereq., EMEN 5042. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5050 (3) Leadership

Provides working engineers a background in leadership concepts and methods, and enables students to develop practical skills through numerous exercises. Topics include authentic leadership, increasing human performance and effectiveness, emotional intelligence, managing commitments, conflict resolution, leading change, and organizational culture. Required for all engineering management degree students. Same as TLEN 5050. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5080 (3) Ethical Decision-Making in Engineering Management

Provide students with the ability to recognize ethical issues and dilemmas affecting managers in the workplace; understand various models and practices offering solutions to these issues; and understand how to create a culture of ethics and integrity in supporting and/or building a profitable, healthy, and responsible organization. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

College of Engineering & Applied Science | Engineering Management

EMEN-5090 (3) Technology Ventures and Marketing

Acquiring marketing know-how is essential for engineers interested in technology and product development. Students learn the basic tenets of marketing with emphasis on developing a technology innovation into a commercially successful product. Special attention given to customer development as a key aspect of product development. Course designed to be of interest to engineers in existing companies and startups. Highlighted will be in-depth discussions of real-world case studies and providing the student with marketing strategies for the high tech environment. Non-EMP students require instructor permission. Restricted to graduate students in Engineering Management Program (EMEN) only. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5300 (3) Management of Research and Development

Provides practical, tested tools to manage research and development in industry and in university and government laboratories. R&D strategies are emphasized, as are innovation and creativity concepts and techniques. R&D portfolio techniques are emphasized and are the basis for a team project. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5400 (3) Product Development

Provides state-of-the-art techniques for improving the identification and creation of new products, services, and brands that provide an exceptional customer experience. Both proven and emerging management techniques in new product management are covered. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5405 (3) Systems Engineering: Requirements

Provides students with an understanding of how to prepare a program for effective and timely specification development and analytical methods for specification development. Management aspects covered include traceability, margins and budgets, requirements validation, specification publishing, and use of database systems. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

[College of Engineering & Applied Science](#) | [Engineering Management](#)

EMEN-5410 (3) Systems Engineering: Synthesis

Provides methods for transforming a set of requirements in a series of specifications into a physical reality through product design, material procurement, and manufacturing transforms. The solution is developed through integration and optimization. This is the second course in a three course systems engineering sequence. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

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Courses

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EMEN

EMEN-5415 (3) Systems Engineering: Verification

Provides students with methods to plan and implement effective product verification process on a program involving development of complicated products. Applies a process perfected on military programs, but the process is generic and can be applied effectively to commercial products. A worst case product and program complexity are considered permitting tailoring of the process for less complex cases. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

EMEN-5430 (3) Software Product Management

Explores software product management activities from product concept to launch while ensuring both market visibility and customer satisfaction. Includes market research and opportunity analysis, software requirements, pricing and profitability, alpha-beta program feedback, operational readiness, sales channels and partner strategies. Recommended prereq., some software development experience. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

EMEN-5500 (3) Lean and Agile Management

Operations Management has evolved and broadened from a sole focus on the manufacturing of hardware to a more universal set of concepts, management methods, and practical tools spanning manufacturing, supply chains, product development, software development, project management, support services, and accounting. This new approach can best be described as lean and agile management. Credit not granted for this course and OPIM 6080. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

[College of Engineering & Applied Science](#) [Engineering Management](#)

EMEN-5600 (3) Survey of Operations Research

Applications oriented survey of operations research topics including linear and integer programming, network analysis, dynamic programming, nonlinear programming, decision analysis, Markov chain and Markovian decision models, queuing theory, and simulation. Non-EMP students require instructor permission. Same as OPIM 6070. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5610 (3) Advanced Statistical Methods for Engineering Research

Combines statistical methods with practical applications and computer software. Develops commonly used statistical models such as analysis of variance as well as linear and logistic regression. The statistical models are implemented and interpreted in the context of actual data sets using available statistical software. Continuation of EMEN 5005. Prereq., EMEN 5005 or equivalent and EMEN 5900 or equivalent. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5620 (3) Data Mining and Screening Experiments for Engineering Research

Combine intermediate and advanced statistical methods with practical research applications. Develops commonly used statistical models such as Two and Three-Way Analysis of Variance and the analysis of Fractional Factorial Designs for the solution of common business and industrial research problems. The statistical models are implemented and interpreted in the context of actual data sets using available statistical software. Prereq., EMEN 5610. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5710 (3) Applied Business Decisions

Student teams launch a high-tech company over eight quarters in a simulated business environment. Decisions are made in all major business areas-e.g. product development, marketing, operations, finance- in competition with other teams. Given the results of the previous quarter, teams make decisions for the next quarter. After the first year (four quarters), students prepare an elevator pitch, executive summary, and PowerPoint pitch to justify additional venture capital or a bank loan. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5825 (3) Entrepreneurial Business Plan Preparation

Instructs students in the necessary elements of a business plan and how to prepare a complete, well-written plan for an entrepreneurial business venture. Students work in teams to create a business concept and take it through business plan completion. Recommended prereq., EMEN 5020 or equivalent. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in

Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5840 (1-3) Independent Study Project

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Non-EMP students require instructor permission. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-5900 (3) Research Methods

Explores commonly used research methods including analytical, agreement, descriptive, and relational methods; experimental design including incorporation, nesting, blocking, and controlling; threats to the internal and external validity of research. Sampling procedures and considerations, measurement validity and reliability, and managing the research study are also reviewed. Prereq., EMEN 5005 or equivalent. Non-EMP students require instructor permission. Same as TLEN 5750. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-6805 (1) Capstone Preparation

Students determine capstone research question, conduct literature review, develop research methodology and project plan, write a proposal, and select capstone committee. Restricted to students who have completed 21 credit hours toward the EMEN degree. Prereq., either EMEN 5900 if choosing an applications-oriented capstone or EMEN 5825 if choosing a business plan capstone, and selection of a capstone advisor. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-6810 (2) Capstone Completion

Continues EMEN 6805 as the second half of a two-course sequence for the engineering management capstone project. Students conduct agreed-upon research, research and analyze results, develop recommendations, write a final report, and present the project to the committee for evaluation. Prereq., EMEN 6805. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.

College of Engineering & Applied Science | Engineering Management

EMEN-6830 (3) Project Management Capstone

Evaluate project management practices in the student's work unit, company, or in another organization. Identify strengths and weaknesses of the major product management processes as outlined in the Project Management Body of Knowledge (PMBOK). Opportunities for improvement and methods for implementation are expected. Prereqs., EMEN 5030 and 5032 and acceptance into the Project Management Certification option. Prerequisites: Restricted to graduate students in Engineering Management Program (EMEN) only.



Courses

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Subject **Number**

EMUS

EMUS-1217 (1) University Singers

[College of Music](#) | [Music Ensembles](#)

EMUS-1227 (1) University Choir

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

[College of Music](#) | [Music Ensembles](#)

EMUS-1237 (1) Women's Chorus

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

[College of Music](#) | [Music Ensembles](#)

EMUS-1247 (1) Men's Chorus

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

[College of Music](#) | [Music Ensembles](#)

EMUS-1257 (1) Collegiate Chorale

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1267 (1) Choirs/Festival

College of Music | Music Ensembles

EMUS-1277 (1) Court Players

College of Music | Music Ensembles

EMUS-1287 (1) Marching Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1297 (1) Wind Symphony

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1307 (1) Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1317 (1) Campus Band

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

College of Music | Music Ensembles

EMUS-1337 (1) Chamber Orchestra

College of Music | Music Ensembles

EMUS-1347 (1) Bell Ensemble

College of Music | Music Ensembles

EMUS-1357 (1) Harp Ensemble

College of Music | Music Ensembles

EMUS-1367 (1) Early Music Ensembles

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

College of Music | Music Ensembles

EMUS-1377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-1387 (1) Chamber Music-Strings

College of Music | Music Ensembles

EMUS-1397 (1) Chamber Music Piano Duo

College of Music | Music Ensembles

EMUS-1407 (1) Chamber Music-Woodwinds

EMUS-1417 (1) Percussion Ensemble

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

EMUS-1427 (1) Jazz Ensemble

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

EMUS-1437 (1) Jazz Combo

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

EMUS-1447 (1) Guitar Ensemble

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Music majors only.

EMUS-1467 (1) World Music Ensemble

Study and performance of music's of minority cultures in the United States, including Native American, Latin American, African American, and Asian American, as well as music from the mother cultures of these groups. Same as EMUS 3467 and 5467. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.



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EMUS

EMUS-1477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 3477 and EMUS 5477.

[College of Music](#) | [Music Ensembles](#)

EMUS-1507 (1) Chamber Music

Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

[College of Music](#) | [Music Ensembles](#)

EMUS-1517 (1) Campus Orchestra

Offers University string, wind and percussion performers not majoring in music an opportunity to play in a conducted orchestra. Rehearsals are one night per week and has limited performance demands. Auditions are not required for strings. Instruments are available if needed. May be repeated up to 12 total credit hours. Same as EMUS 3517. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

[College of Music](#) | [Music Ensembles](#)

EMUS-3217 (1) University Singers

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Music](#) | [Music Ensembles](#)

EMUS-3227 (1) University Choir

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3237 (1) Women's Chorus

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3247 (1) Men's Chorus

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3257 (1) Collegiate Chorale

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3267 (1) Choirs/Festival

College of Music | Music Ensembles

EMUS-3287 (1) Marching Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3297 (1) Wind Symphony

2.0 credit hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3307 (1) Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3317 (1) Campus Band

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3337 (1) Chamber Orchestra

College of Music | Music Ensembles

EMUS-3347 (1) Bell Ensemble

College of Music | Music Ensembles

EMUS-3357 (1) Harp Ensemble

College of Music | Music Ensembles

EMUS-3367 (1) Early Music Ensembles

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music Ensembles

EMUS-3377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-3387 (1) Chamber Music-Strings

College of Music | Music Ensembles

EMUS-3397 (1) Chamber Music Piano Duo

College of Music | Music Ensembles

EMUS-3407 (1) Chamber Music-Woodwinds

College of Music | Music Ensembles

EMUS-3417 (1) Percussion Ensemble

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music Ensembles

EMUS-3427 (1) Jazz Ensemble

2.0 hours offered CE Aspen Music School only. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3437 (1) Jazz Combo

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles



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EMUS

EMUS-3447 (1) Guitar Ensemble

Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

[College of Music](#) [Music Ensembles](#)

EMUS-3457 (1) Electronic Music Ensemble

Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music Ensembles](#)

EMUS-3467 (1) World Music Ensemble

Same as EMUS 1467 and EMUS 5467. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Music](#) [Music Ensembles](#)

EMUS-3477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 1477 and EMUS 5477.

[College of Music](#) [Music Ensembles](#)

EMUS-3507 (1) Chamber Music

Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-3517 (1) Campus Orchestra

May be repeated up to 12 total credit hours. Same as EMUS 1517. Restricted to Juniors or Seniors only. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Music | Music Ensembles

EMUS-5217 (1) University Singers

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5227 (1) University Choir

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5297 (1) Wind Symphony

2.0 credit hours offered CE Aspen Music School only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5307 (1) Band

Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5327 (1) Symphony Orchestra

2.0 hours offered CE Aspen Music School only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music Ensembles

EMUS-5337 (1) Chamber Orchestra

College of Music | Music Ensembles

EMUS-5357 (1) Harp Ensemble

College of Music | Music Ensembles

EMUS-5367 (1) Early Music Ensembles

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5377 (1) Chamber Music-Brass

College of Music | Music Ensembles

EMUS-5387 (1) Chamber Music-Strings

College of Music | Music Ensembles

EMUS-5407 (1) Chamber Music-Woodwinds

College of Music | Music Ensembles

EMUS-5417 (1) Percussion Ensemble

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5427 (1) Jazz Ensemble

Students perform in a principal format for jazz expression. The large ensemble setting affords the opportunity to expand knowledge of jazz styles and repertoire as well as refine reading skills and improve spontaneous interaction with other musicians. Prereq., previous experience in large jazz ensembles. Recommended EMUS 3427 or equiv. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5437 (1) Jazz Combo

Allows students the opportunity to perform in the principal format for jazz expression. The small group setting affords performers the opportunity to refine improvisation skills, improve spontaneous interaction with musicians and expand knowledge of jazz styles and repertoire. Prereq., previous performance experience in small jazz combos. Recommended EMUS 3437, or equiv. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5447 (1) Guitar Ensemble

Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5457 (1) Electronic Music Ensemble

Explores performance, composition, and the history of electronic music, including 20th century art music on through to electronic music in contemporary popular culture. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5467 (1) World Music Ensemble

Study and performance of music's of minority cultures in the United States, including Native American, African American, and Asian American, as well as music from the mother cultures of these groups. Prereq., graduate standing or instructor consent. Same as EMUS 1467 and 3467. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music Ensembles

EMUS-5477 (1) Vocal Jazz Ensemble

Study and performance of various vocal jazz styles, development of improvisational techniques, and investigation of the challenges of music making in a small group setting. Same as EMUS 1477 and EMUS 3477.

College of Music | Music Ensembles

EMUS-5507 (1) Chamber Music

Prerequisites: Restricted to College of Music graduate students only.

[College of Music](#) | [Music Ensembles](#)

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Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject Number

ENGL

ENGL-1001 (3) Freshman Writing Seminar

Provides training and practice in writing. Focuses on the writing process, the fundamentals of composition, and the structure of argument. Provides numerous and varied assignments with opportunity for revision. Prereqs., College of Arts and Sciences freshman or sophomore standing. Not open to business or engineering majors. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: lower-division written communication. Prerequisites: Not open to Engineering or Business majors.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

ENGL-1191 (3) Introduction to Creative Writing

Introduces techniques of fiction and poetry. Student work is scrutinized by the instructor and may be discussed in a workshop atmosphere with other students. May not be taken concurrently with ENGL 2021 or 2051. May not be repeated. Not open to graduate students.

[College of Arts & Sciences](#) [English](#) [Undergraduate Writing](#)

ENGL-1260 (3) Introduction to Women's Literature

Introduces literature by women in England and America. Covers both poetry and fiction and varying historical periods. Acquaints students with the contribution of women writers to the English literary tradition and investigates the nature of this contribution. Same as WMST 1260. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

ENGL-1500 (3) Masterpieces of British Literature

Introduces students to a range of major works of British literature, including at least one play by Shakespeare, a pre-20th century English novel, and works by Chaucer and/or Milton. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences English General Literature & Language

ENGL-1600 (3) Masterpieces of American Literature

Enhances student understanding of the American literary and artistic heritage through an intensive study of a few centrally significant texts, emphasizing works written before the 20th century. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences English General Literature & Language

ENGL-1800 (3) American Ethnic Literatures

Introduces significant fiction by ethnic Americans. Explores both the literary and the cultural elements that distinguish work by these writers. Emphasizes materials from Native American, African American, and Chicano traditions. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences English General Literature & Language

ENGL-2021 (3) Introductory Poetry Workshop

Introductory course in poetry writing. May be repeated up to 9 total credit hours. Prereq., ENGL 1191 (min grade B-), or equivalent transfer course work. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Not open to graduate students.

College of Arts & Sciences English Undergraduate Writing

ENGL-2022 (5) Literary Analysis (with Lab)

Provides basic skills for the English major, enhanced with a language arts lab. Emphasizes critical writing and the acquisition of the techniques and vocabulary of criticism through close attention to literary language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors. Credit not granted for this course and English 2000. Formerly ENGL 2020.

Prerequisites: Restricted to English majors only.

College of Arts & Sciences English General Literature & Language

ENGL-2036 (3) Introduction to Media Studies

Serves as an introduction to media studies, including theories and methodologies for undertaking media scholarship within the humanities. Topics may include the history of the book, text messaging, blogging, and gaming, as well as digital fiction and poetry. Same as ATLS 2036. Formerly ENGL 2030.

College of Arts & Sciences English Advanced Thry, Genre, Pop Cult

ENGL-2051 (3) Introductory Fiction Workshop

Introductory course in fiction writing. May be repeated up to 9 total credit hours. Prereq., ENGL 1191 (min grade B-), or equivalent transfer course work. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences English Undergraduate Writing

ENGL-2058 (3) Twentieth- and Twentyfirst-Century Literature

Surveys the major literary trends in prose and poetry from 1900 to the present in the Anglo-American tradition of modern, postmodern, and contemporary literature. Provides students with a grounding in the major authors and motifs of 20th- and 21st-century in literature connection with political and cultural changes across the periods.

College of Arts & Sciences English Critical Studies in English

ENGL-2102 (3) Literary Analysis

Provides a basic skills course designed to equip students to handle the English major. Emphasizes critical writing and the acquisition of basic techniques and vocabulary of literary criticism through close attention to poetic and prose language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors only. Credit not granted for this course and ENGL 1010. Formerly ENGL 2000. Prerequisites: Restricted to English majors only.

College of Arts & Sciences English General Literature & Language

ENGL-2112 (3) Introduction to Literary Theory

Introduces students to a wide range of critical theories that English majors need to know. Covers major movements in modern literary/critical theory, from Matthew Arnold through new criticism to contemporary postmodern frameworks. Required for all English majors. Restricted to English majors only. Formerly ENGL 2010. Prerequisites: Restricted to English majors only.

College of Arts & Sciences English General Literature & Language

ENGL-2115 (3) American Frontiers

Considers the backdrop of the American West in literature, film, photography, and gaming. We will focus on a range of narratives and images depicting this wide swathe of American geography while simultaneously cultivating close reading skills, digital media analysis and film analysis that will aid you in deeper insights at the textual level. Approved for arts and sciences core curriculum: U.S. context.

College of Arts & Sciences English American Literature

ENGL-2222 (3) Foundations of British and American Literature

Studies major texts of medieval and Renaissance writers who fundamentally influenced the course of English writing. Ordinarily deals with Chaucer, Shakespeare, and Milton, though other classical, medieval, and Renaissance authors may be substituted.

College of Arts & Sciences English Backgrounds to Literature Engl

ENGL-2503 (3) British Literary History to 1660

Provides a chronological study of great figures and forces in English literature from Beowulf to 1660. Formerly ENGL 2502.

College of Arts & Sciences English British Literature to 1660

ENGL-2504 (3) British Literary History after 1660

Provides a chronological study of great figures and forces in English literature from 1660 to the present. Formerly ENGL 2512.

College of Arts & Sciences English British Literature after 1660

ENGL-2620 (3) Introduction to Western European Literature 1

Close study of literary classics of Western civilization: the Odyssey or Iliad, Greek drama, and several books of the Bible. Formerly ENGL 2602.

College of Arts & Sciences English General Literature & Language

ENGL-2630 (3) Introduction to Western European Literature 2

Close study of literary classics of Western civilization: major Roman and medieval texts. Formerly ENGL 2612.

College of Arts & Sciences English General Literature & Language

ENGL-2655 (3) Introduction to American Literature I

Chronological survey of the literature from Bradford to Whitman. Restricted to English, humanities, and film studies majors only. Credit not granted for this course and ENGL 3654. Similar to ENGL 3655. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN) or Film (FILM or FMST) majors only.

College of Arts & Sciences English American Literature

ENGL-2665 (3) Introduction to American Literature 2

Chronological survey of the literature from Whitman to Faulkner. Continuation of ENGL 3655. Credit not granted for this course and ENGL 3664. Similar to ENGL 3665. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN) or Film (FILM or FMST) majors only.

College of Arts & Sciences English American Literature

ENGL-2707 (3) Introduction to Lesbian, Bisexual, and Gay Literature

Offers students at sophomore and junior levels an introduction to some of the forms, concerns, and genres of contemporary lesbian, bisexual, and gay writing in English. Prereq., sophomore standing. Same as LGBT 2707.

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-2717 (3) American Indian Literature

Surveys historical and contemporary North American Native American literature. Examines the continuity and incorporation of traditional stories and values in Native Literature, including novels, short stories, and poetry. Same as ETHN 2713.

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-2727 (3) African American Literature

Surveys African American literature from the 17th century, through the Harlem Renaissance and Depression, to the present. Same as ETHN 2722.

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-2737 (3) Survey of African American Literature 2

Chronological study of African American literature from the Depression writers to the present. Same as ETHN 2732.

College of Arts & Sciences English Multicultural & Gender Studies



Courses

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College/School

All

Search by Course Number

Subject **Number**

ENGL

ENGL-2747 (3) Chicana/Chicano and Mexican Literature

Introduces Chicana and Chicano and Mexican literary studies, focusing on narrative works by Chicana and Chicano writers. Examines diverse range of Mexican writing in Greater Mexico as it addresses recurring issues and themes, including language, race and class, questions of identity, and gender relations. Same as ETHN 2746.

[College of Arts & Sciences](#)
[English](#)
[Multicultural & Gender Studies](#)

ENGL-2767 (3) Survey of Post-Colonial Literature

Surveys the development of literatures in English in former British colonies. Topics include the spread and adaptation of English language literary forms in Asia, Africa, the Caribbean, and the far new world (Australia and New Zealand). Students learn the causes of the dispersion and the motivations for the clearly different uses of English literary forms in the ex-colonies. Same as ETHN 2761. .

[College of Arts & Sciences](#)
[English](#)
[Multicultural & Gender Studies](#)

ENGL-3000 (3) Shakespeare for Nonmajors

Introduces students to Shakespeare's major works: the histories, comedies, and tragedies. May include the nondramatic poetry as well. Prereq., sophomore standing. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[English](#)
[General Literature & Language](#)

ENGL-3005 (3) The Literature of New World Encounters

Explores American literature as a site of cultural intersection between European settlers and indigenous peoples. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-3008 (3) Developments in the Novel, Post-1900

Introduces students to the major works, authors, and formal trends of the 20th and 21st-century novel. Texts may be drawn from British, American, and global literary traditions. The course may also focus on a specific movement, development, or transformation in the genre post-1900, for instance, modernism, postmodernism, naturalism, realism, postcolonial fiction, historical fiction, and so forth. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English Critical Studies in English

ENGL-3010 (3) History of the English Language

Introduces students to the historical stages of English from Anglo-Saxon, c. 500, to Modern English. Considers both language change and the role of language in historical and political phenomena such as globalization (including the spread of English and the emergence of different dialects) and past and present debates about standard language, canon formation, and culture.

College of Arts & Sciences English General Literature & Language

ENGL-3011 (3) Literary Forms and Styles in Post-1900 Literature

Studies special topics in literary forms and styles (e.g. magical realism, naturalism, language poetry, etc.) and also the development of genres (e.g. poetry, drama, digital media, novel) in the 20th- and 21st-centuries. Topics vary each semester. Specially design for English majors. May be repeated for a total of 6 units for different topics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English Undergraduate Writing

ENGL-3021 (3) Intermediate Poetry Workshop

Intermediate course in poetry writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191 and ENGL 2021 (both min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences English Undergraduate Writing

ENGL-3025 (3) American Nationalisms

Examines how literature participates in the creation of American national culture and identify. Surveys major political writing and a variety of literary genres, tropes, and themes from early native American tales to the 20th-century literature. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-3041 (3) Studies in Fiction and Poetry

Examines literary forms and themes with special emphasis on issues related to the craft of poetry and fiction. This course is taught in conjunction with visiting lectures by practicing writers. Does not count as Creative Writing workshop credit. Prereq., ENGL 1191 (min grade B-). Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences English Undergraduate Writing

ENGL-3051 (3) Intermediate Fiction Workshop

Intermediate course in fiction writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191 and ENGL 2051 (both min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences English Undergraduate Writing

ENGL-3060 (3) Modern and Contemporary Literature for Nonmajors

Close study of significant 20th century poetry, drama, and prose works. Readings range from 1920s to the present. Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English General Literature & Language

ENGL-3068 (3) Literature in English, 1900-1945

Surveys major literary trends from 1900-1945 in the Anglo-American tradition, including the characteristics of literary modernism. Covers both prose and poetry, as well as the relationship between literature and history to the close of World War II. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English Critical Studies in English

ENGL-3078 (3) Literature in English, 1945-Present

Explores major literary and theoretical trends in the Anglo-American tradition after 1945. Recommended prereqs., ENGL 2000 and 2058. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English Critical Studies in English

ENGL-3081 (3) Intermediate Nonfiction Workshop

Discussion and practical criticism of student work and discussion of relevant works of literary nonfiction. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Restricted to English, Humanities, Theatre (THTR

or TBFA) majors only or Creative Writing minor students only.

College of Arts & Sciences English Undergraduate Writing

ENGL-3088 (3) Major Authors of Post-1900 Literature

Provides an in-depth study of the work of one or two major authors in the Anglo-American tradition after 1900. May be repeated for a total of 9 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English Critical Studies in English

ENGL-3116 (3) Topics in Advanced Theory

Studies special topics in theory; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English Advanced Thry, Genre, Pop Cult

ENGL-3164 (3) History and Literature of Georgian Britian

Provides an interdisciplinary study of England in one of its most vibrant cultural and historical periods. Topics include politics, religion, family life, and the ways contemporary authors understood their world. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English British Literature after 1660

ENGL-3204 (3) Developments in the Novel

Covers the development of the novel. Formerly ENGL 4204. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature after 1660

ENGL-3217 (3) Topics in Gender Studies

Studies special topics in gender studies; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-3226 (3) Folklore

Emphasizes formal study of folk traditions (including tales, songs, games, customs, beliefs, and crafts) within a theoretical framework, using examples from several cultures. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English Advanced Thry, Genre, Pop Cult

ENGL-3235 (3) American Novel

Surveys the American novel. Covers the early development of the American novel, its rise in the 19th- and 20th-centuries, and its contemporary expressions. Students will be introduced to theories of the novel, the major movements and authors, as well as the characteristics that define the American novel as unique. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-3245 (3) American Poetry

Surveys American poetry from the 17th- to the 21st-century. Includes training in poetry theory, form, and genre, as well as in poetic analysis. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-3246 (3) Topics in Popular Culture

Studies special topics in popular culture; specially designed for English majors. Topics vary each semester. May be repeated for a total of 6 credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to sophomore, junior, or senior English or Humanities Majors only.

College of Arts & Sciences English Advanced Thry, Genre, Pop Cult

ENGL-3267 (3) Women Writers

Introduces literature by British and American women. Same as WMST 3267. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English Multicultural & Gender Studies



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

ENGL

ENGL-3302 (3) Backgrounds of English and American Literature

Studies literary, philosophic, and religious traditions of the Greco-Roman and Judeo-Christian worlds, with close analysis of major texts in translation. Compares ancient and modern texts where feasible. Prerequisites: Restricted to sophomore, junior, or senior English or Humanities Majors only.

[College of Arts & Sciences](#) [English](#) [Backgrounds to Literature Engl](#)

ENGL-3310 (3) The Bible as Literature

Surveys literary achievements of the Judeo-Christian tradition as represented by the Bible. Same as JWST 3312. Formerly ENGL 3312. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [English](#) [Backgrounds to Literature Engl](#)

ENGL-3377 (3) Multicultural Literature

Studies special topics in multicultural literature; specially designed for English majors. Topics vary each semester. May be repeated up to 6 total credit hours for different topics. Prereq., sophomore standing. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [English](#) [Multicultural & Gender Studies](#)

ENGL-3523 (3) The Renaissance in England, 1500-1600

Selected prose and non-dramatic poetry from Skelton and More through Shakespeare and his contemporaries. Formerly ENGL 4523. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-3533 (3) The Renaissance in England, 1600-1700

Selected prose and poetry by Donne, Jonson, Bacon, and their successors. Formerly ENGL 4533. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-3553 (3) Geoffrey Chaucer

Selection of Chaucer's works, including The Canterbury Tales and other shorter poems. Includes an introduction to Middle English. Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English British Literature to 1660

ENGL-3563 (3) Shakespeare

Shakespeare's poetry and drama. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL), Humanities (HUMN), Theatre (THTR or TBFA) majors only.

College of Arts & Sciences English British Literature to 1660

ENGL-3564 (3) Romanticism

Surveys British Romanticism, including Blake, Coleridge, Wordsworth, Keats, Shelley, and Byron. Formerly ENGL 4564. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English British Literature after 1660

ENGL-3573 (3) Shakespeare in Performance

Focuses on Shakespeare the dramatist through the study of the three Shakespeare plays produced in the summer by the Colorado Shakespeare Festival. In addition to exploring the text, the historical context and performance conventions c. 1600, students meet the CSF teams (professional directors, dramaturgs, designers and actors) of the three plays and the Producing Artistic Director of the CSF. May be repeated up to 9 total credit hours. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences English British Literature to 1660

ENGL-3583 (3) Milton

Milton's poetry and selected prose. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English

(ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English British Literature to 1660

ENGL-3593 (3) Major Authors in British Literature before 1660

Focuses on one major author of the medieval or early modern period, such as William Langland, John Lydgate, Edmund Spenser or Ben Jonson. Course content varies with instructor and may include literary influences, contemporary writers, and historical influences as necessary to understanding the writer. May be repeated for a total of 9 units for different topics. Recommended prereqs., ENGL 2503 and 3533 or 3563. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-3604 (3) The Victorian Era

Surveys main currents of Victorian thought in prose and poetry. Formerly ENGL 4604. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English British Literature after 1660

ENGL-3675 (3) Major Authors in American Literature

Provides an in-depth study of the work of one or two major American authors. Explores the range, influences, and development of a writer over his or her life. May be repeatable for a total of 9 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-3677 (3) Jewish-American Literature

Explores the Jewish-American experience from the 19th century to the present through writers such as Sholom Aleichem, Peretz, Singer, Malamud, Miller, Ginsberg, and Ozick. The Jewish experience ranges from the travails of immigration to the loss of identity through assimilation. Same as JWST 3677. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-3796 (3) Queer Theory

Surveys theoretical, critical, and historical writings in the context of lesbian, bisexual, and gay literature. Examines relationships among aesthetic, cultural, and political agendas, and literary and visual texts of the 20th century. Same as LGBT 3796. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences English Advanced Thry, Genre, Pop Cult

ENGL-3856 (3) Topics in Genre Studies

Studies special topics in genre studies; specially designed for English majors. Topics vary each semester. May be repeated for a total of 6 credit hours for different topics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) English (ENGL), Humanities (HUMN), Film (FILM or FMST) or Theatre (THTR or TBFA) majors only.

College of Arts & Sciences English Advanced Thry, Genre, Pop Cult

ENGL-3930 (1-6) Internship

Provides academically supervised opportunity for upper-division students to work in public or private organizations on projects related to students' career goals and to relate classroom theory to practice. May be repeated up to 6 total credit hours. Restricted to students with 57-180 credits (Junior or Senior) and instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English General Literature & Language

ENGL-3940 (1-3) Service Learning Practicum

Under faculty supervision, students participate in a service project correlated with the academic subject. May be repeated up to 6 total credit hours.

College of Arts & Sciences English General Literature & Language

ENGL-4011 (3) Global and Transnational Approaches to Post-1900 Literature

Studies special topics that focus on transnational and global issues in the 20th- and 21st-century literature. For instance, the emergence of globalization, the impact of cross-cultural exchanges, the increase of migration, or the legacies of imperialism. Topics vary each semester. Specially designed for English majors. May be repeated for a total of 6 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English Undergraduate Writing

ENGL-4021 (3) Advanced Poetry Workshop

Advanced course in poetry writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1119, ENGL 2021 and ENGL 3021 (all min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences English Undergraduate Writing

ENGL-4026 (3) Special Topics in Genre, Media, and Advanced Writing

Studies theoretical and historical approaches to genre, media, and writing at the advanced level. May be repeatable for a total of 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English Advanced Thry, Genre, Pop Cult

ENGL-4039 (3) Critical Thinking in English Studies

Concerned with developments in the study of literature that have significantly influenced our conception of the theoretical bases for study and expanded our understanding of appropriate subject matter. May not be repeated. Formerly ENGL 4038. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English Critical Studies in English

ENGL-4051 (3) Advanced Fiction Workshop

Advanced course in fiction writing. May be repeated up to 9 total credit hours. Prerequisites: Requires prerequisite courses of ENGL 1191, ENGL 2051, and ENGL 3051 (all min grade B-). Restricted to Creative Writing minor students or students with a sub plan of Creative Writing.

College of Arts & Sciences English Undergraduate Writing

ENGL-4071 (3) Scriptwriting Workshop

Designed to give students practical criticism of their script writing and technical format requirements. Either stage plays or screenplays are studied, as announced. May be repeated up to 9 total credit hours. Prereq., CRW major or instructor consent based on submission of manuscript. Same as FILM 4075. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better).

College of Arts & Sciences English Undergraduate Writing

ENGL-4081 (3) Playwriting

May be repeated up to 9 total credit hours. Prereq., CRW major or instructor consent based on submission of manuscript. Prerequisites: Requires prerequisite course of ENGL 1191 (B- or better). Restricted to students with a sub plan of Creative Writing.

College of Arts & Sciences English Undergraduate Writing



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject Number

ENGL

ENGL-4098 (3) Special Topics in Post-1900 Literature in English

Explores a special topic in literature written in, or translated into English, post-1900. May be repeated up to a total of 6 units for different topics. Recommended prereq., ENGL 2000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [English](#) [Critical Studies in English](#)

ENGL-4113 (3) History and Culture of Medieval England

Explores the major historical, literary, and cultural developments in England from the Anglo-Saxon period through the 15th century. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [English](#) [British Literature to 1660](#)

ENGL-4116 (3) Advanced Topics in Media Studies

Studies specialized topics in the history, theory, and practice of media, such as the history of the book, the theory of digital media, and the theory and practice of multimedia forms. Specially designed for English majors. Topics vary year to year. May be repeated up to 6 total credit hours. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [English](#) [Advanced Thry, Genre, Pop Cult](#)

ENGL-4224 (3) Modern British and Irish Novel

Studies major figures and trends in the 20th century. Restricted to students with 57-180 credits (Junior or Senior). Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature after 1660

ENGL-4235 (3) American Novel 1

From the beginnings to 1900. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-4245 (3) American Novel 2

From 1900 to the present. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-4250 (3) Modern and Contemporary Novel

Close study of masterpieces by such novelists as Proust, Joyce, Woolf, Lawrence, Mann, Kafka, and Faulkner. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English General Literature & Language

ENGL-4277 (3) Topics in Women's Literature

Focuses on areas of research interest in the study of women's literature, such as selected themes or critical issues. Students are expected to contribute original research to the topic under consideration. Same as WMST 4277. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-4286 (3) Folklore 2

Upper-division studies of folk groups, events, texts, and contexts as they reflect traditional knowings---folk perceptions and teachings about the structure and purpose of the universe. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English Advanced Thry, Genre, Pop Cult

ENGL-4287 (3) Studies in Lesbian, Gay, Bisexual, and Transgender Literature

Examines selected British, American, and French literary representations of lesbian and gay identity from the early 16th century to the present. Discusses the changing status of homosexuality as a literary and cultural topos, including how same-sex desire is defined, and

the rhetorical and ideological difficulties involved in its representation. Specific topics vary each semester. May be repeated up to 9 total credit hours. Same as LGBT/WMST 4287. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English Multicultural & Gender Studies

ENGL-4360 (3) Modern Drama.

Explores continental, British, and American drama since Ibsen. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English General Literature & Language

ENGL-4460 (3) Modern Poetry

Selects works of British and American poets from 1900 to the present. Prereq., junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English General Literature & Language

ENGL-4503 (3) Continental Medieval Literature

Intensive study of the major literary works of the Middle Ages in Europe. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-4513 (3) British Medieval Literature

Intensive study of the major literary works of the Middle Ages in Britain. Restricted to students with 57-180 credits (Junior or Senior). May be repeated up to 9 total credit hours provided the topics vary. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-4514 (3) Advanced Topics: The Restoration and the Eighteenth Century

Covers advanced topics in the Restoration and Eighteenth-century. May be repeated up to 6 total credit hours. Formerly ENGL 4554. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature after 1660

ENGL-4524 (3) Advanced Topics: Romanticism

Covers advanced topics in British Romanticism. Formerly ENGL 4574. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English British Literature after 1660

ENGL-4544 (3) The Age of Satire: 1660--1740

Dryden, Defoe, Swift, Pope, Addison, Steele, and their contemporaries. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English British Literature after 1660

ENGL-4583 (3) Elizabeth I and Her Times

Interdisciplinary course explores different aspects of the reign of Elizabeth I: social and political history; literature; theater; and music. Explores the role and impact of a female ruler on English culture. Same as HIST 4134 and THTR 4091. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-4624 (3) Transnational/Historic/Interdiscipline Approaches 1660-1900

Explores a special topic in British literature written between 1660-1900 that crosses traditional divisions of nationality, history, and discipline. Repeatable up to 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature after 1660

ENGL-4634 (3) Advanced Topics: The Victorian Era

Covers advanced topics in Victorian literature. Formerly ENGL 4614. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English British Literature after 1660

ENGL-4655 (3) Studies in American Literature to 1900

Extensive study of particular periods and movements in American literature. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English American Literature

ENGL-4665 (3) Studies in American Literature after 1900

Extensive study of particular periods and movements in American literature. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) English (ENGL) or Humanities (HUMN) majors only.

College of Arts & Sciences English American Literature

ENGL-4685 (3) Special Topics in American Literature

Explores a special topic in American literature. May be repeated for a total of 9 units for different topics. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English American Literature

ENGL-4693 (3) Advanced Topics in British Literature to 1660

Explores a special topic in medieval or early modern literature. May be repeated for a total of 9 units for different topics. Recommended prereqs., ENGL 2503 and 3533 or 3563. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English British Literature to 1660

ENGL-4697 (3) Contemporary African American Literature 1

Advanced in-depth study of the works of prominent African American novelists and poets. Restricted to juniors/seniors. Same as ETHN 4692. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences English Multicultural & Gender Studies

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ENGL

ENGL-4820 (3) Honors Seminar

Prepares prospective honors students to write honors theses. Focuses on sharpening the skills needed to write a successful thesis, including research techniques and the ability to evaluate and respond to secondary materials. May not be repeated. Prereq., instructor consent. Restricted to junior and senior English majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

ENGL-4830 (3) Honors Thesis

Students accepted to English Departmental Honors are enrolled in this course.

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

ENGL-4840 (1-3) Independent Study---Upper Division

Creative writing. May be repeated up to 8 total credit hours.

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

ENGL-4850 (1-3) Independent Study---Upper Division

Literature/language. May be repeated up to 8 total credit hours.

[College of Arts & Sciences](#) [English](#) [General Literature & Language](#)

ENGL-5019 (3) Survey of Contemporary Literary and Cultural Theory

Introduces a variety of critical and theoretical practices informing contemporary literary and cultural studies. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English (ENGL) MA-Lit graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5029 (3) British Literature and Culture Before 1800

Introduces graduate level study of medieval and early modern writing through the long eighteenth century. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5059 (3) British Literature and Culture After 1800

Introduces graduate level study of Romantic, Victorian, Modern, and Postmodern writing. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Same as ENGL 5079. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5079 (3) British Literature and Culture After 1800.

Same as ENGL 5059.

College of Arts & Sciences English Graduate Courses

ENGL-5109 (3) Literature and Culture of the United States

Introduces graduate level study of writing of the United States from its inception to the present. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5139 (3) Global Literature and Culture

Introduces graduate level study of recent writing in English from around the world. Emphasizes a wide range of genres, forms, new

media, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5169 (3) Multicultural/Postcolonial Studies.

Introduces graduate level study of ethnic American and/or postcolonial writing in English, including relevant theoretical discourse. Emphasizes a wide range of genres, forms, historical background, and secondary criticism. Cultivates research skills necessary for advanced graduate study. Topics will vary. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5199 (3) Studies in Special Topics

See ENGL 5109 for description.

College of Arts & Sciences English Graduate Courses

ENGL-5229 (3) Poetry Workshop

Designed to give students time and impetus to generate poetry and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5239 (3) Fiction Workshop

Designed to give students time and impetus to generate fiction and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5259 (3) Nonfiction Workshop

Designed to give students time and impetus to generate nonfiction and discussion of it in an atmosphere at once supportive and critically serious. Admission to graduate creative writing students or by instructor's approval of an application manuscript. May be repeated up to 9 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5269 (3) Publishing Workshop

Provides practical experience in the editorial, design, and business procedures of desktop publishing. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5279 (3) Studies in Poetry

Addresses modern poetry, written since World War II. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5299 (3) Studies in Fiction

Addresses modern fiction written since World War II. May be repeated up to 6 total credit hours. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5309 (3) Playwriting

Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5319 (3) Studies in Literary Movements

Studies styles, trends, innovations, and major writers in significant literary movements, particularly those after 1900, such as modernism and objectivism. May be repeated up to 9 total credit hours. Restricted to graduate CRWR, ENLT, and ENGL majors. Prerequisites: Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5459 (3) Introduction to the Profession

Introduces purposes, methods and techniques of professional scholarship in English. Provides an overview of the discipline, including traditional areas of research and recent developments. Teaches students how to use research, bibliographic, and reference tools to prepare papers for conferences and publication. Required of all MA students in English. Prereq., graduate standing or instructor consent. Formerly ENGL 7859. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-5529 (3) Studies in Special Topics

Studies special topics that focus on a theme, genre, or theoretical issue not limited to a specific period or national tradition. Topics vary each semester. May be repeated up to 9 total credit hours. Same as ENGL 5549 and 5559. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-5549 (3) Studies in Special Topics

Same as ENGL 5529 and 5559. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-5559 (3) Studies in Special Topics

Same as ENGL 5529 and 5549. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-5849 (1-6) Independent Study (Graduate Level 1)

Independent investigation of topics of specific interest to individual students. Students wishing to enroll in independent study must petition the Associate Chair for Graduate Studies prior to the beginning of the semester. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

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ENGL

ENGL-6949 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-6959 (1-9) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-7019 (3) Advanced British Literature and Culture Before 1800

Studies special topics in medieval and early modern writing through the long 18th Century. Topics will vary. May be repeated up to 9 total credit hours. Recommended prereq., ENGL. 5019. Prerequisites: Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-7059 (3) Advanced British Literature and Culture After 1800

Studies special topics in romantic, Victorian, modern and postmodern writing. Topics will vary. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5059. Prerequisites: Restricted to English Literature-Creative Writing, English Literature or English graduate students only.

[College of Arts & Sciences](#) [English](#) [Graduate Courses](#)

ENGL-7119 (3) Advanced Literature and Culture of the United States

Studies special topics in writing of the United States. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5109. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7149 (3) Advanced Global Literature and Culture

Studies special topics in recent writing in English from around the world. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5149. Prerequisites: Restricted to English Lit-Creative Writing (CRWR), English Literature (ENLT), English (ENGL) or Comparative Literature (CMLT) graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7179 (3) Advanced Multicultural/Postcolonial Studies

Studies special topics in ethnic American and/or postcolonial writing in English, including relevant theoretical discourses. Topics will vary. May be repeated up to 9 total credit hours. Recommended prereq., ENGL 5169. Prerequisites: Restricted to English and English Lit-Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7489 (3) Advanced Special Topics

Studies special topics in theory, culture, and literature of any period. Topics will vary. May be repeated up to 9 total credit hours. Prereq., ENGL 5019; Ph.D. exempted. Prerequisites: Restricted to English and English Lit- Creative Writing graduate students only.

College of Arts & Sciences English Graduate Courses

ENGL-7849 (1-3) Independent Study (Graduate Level 2)

May be repeated up to 7 total credit hours.

College of Arts & Sciences English Graduate Courses

ENGL-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences English Graduate Courses



Courses

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ENVD

ENVD-1004 (3) Introduction to Environmental Design Theory

Introduces students to the complexity of forces that interact to shape the designed environment. A lecture sequence and parallel set of design exercises exposes students to the theory and practice of environmental design, and to the important issues that guide the work of architects, landscape architects, urban designers, and urban planners. Open to nonmajors on a space available basis. Coreqs., ENVD 1052, 2001. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) | [Environmental Design](#) | [History and Theory](#)

ENVD-1010 (3) Design Appreciation

Designed for students who are interested in pursuing a degree in design. Provides a foundation for viewing the world through the "eyes" of a designer and gives a broad overview of various design professions including: Architecture, Planning, Landscape Architecture, and Industrial Design through a basic history of design and speculation concerning the future of these professions. Restricted to non-ARPL students. Prerequisites: Restricted to non-Environmental Design majors only.

[Program in Environmental Design](#) | [Environmental Design](#) | [History and Theory](#)

ENVD-1052 (3) Design and Communication 1

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by emerging digital techniques for the depiction of designed artifacts and environments, allowing students to extend and enhance their understandings of advanced practices for design visualization, representation, and communication. Coreqs., ENVD 1004, 2001. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) | [Environmental Design](#) | [Methods and Techniques](#)

ENVD-1102 (3) Design and Communication 2

Using both lectures and drawing exercises, this class extends understandings of the representational conventions used by the design professions through its introduction to the possibilities offered by traditional techniques for the advanced practices for design visualization, representation, and communication. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1104, 2003. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- for all). Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-1104 (3) Introduction to Environmental Design Methods

Explores the forces and conditions that interact to shape the designed environment. It does so through a lecture sequence and parallel set of design exercises introducing students to the theory and practice of environmental design. It develops student understandings of the central role design thinking plays as the unique process used to effect appropriate change in the designed environment. Prereq., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 2003. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (min grade C- required for all). Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-2001 (3) Human Behavior in Design and Planning

Examines reciprocal relationships between people and their built and natural environments, tracing major issues and approaches in design research to understand how people are influenced by the environment and how they can create healthy, just, and livable places. Coreqs., ENVD 1004, 1052. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Social Factors](#)

ENVD-2002 (3) Environmental Design Media 1

Using both lectures and drawing exercises, this class examines the traditional representational conventions used by the design professions to depict and describe space, form, pattern and information. Uses a multi-disciplined approach that explores the three basic intentions that inform the marks that designers make: visualization, representation and communication. Prereq., ENVD 1004. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-2003 (3) Ecology and Design

Introduces basic principles and techniques of ecology as they relate to the design and understanding of the built environment. Includes a study of hazards and the impact of modern technology on the natural and built environments. Prereqs., ENVD 1004, 1052, 2001. Coreqs., ENVD 1102, 1104. Prerequisites: Requires prerequisite courses of ENVD 1004, ENVD 1052, and ENVD 2001 (with min grade C- for all). Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Physical Factors](#)

ENVD-2052 (3) Introduction to Computers in Planning

Introduces the use of computers in design fields, including applications for word-processing, desktop publishing, graphic creation, and Cad-style design. Aims to provide basic general skills in computer use that are transferable to other computer applications. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-2100 (6) Architecture Studio 1

The first of four architecture studios, this class introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2002. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-2110 (6) Environmental Design Studio

This class exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to fundamental design practices common to the disciplines---architecture, landscape architecture, planning, urban design---that share the responsibility for shaping the designed environment. Prereq., ENVD 2002.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-2120 (6) Environmental Design Lab - Urban Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 3122, 3124. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-2130 (6) Environmental Design Studio: Landscape Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of architecture, urban design and landscape design - disciplines that share the responsibility for shaping the designed environment. Prereqs., ENVD 1004 and 1104. Restricted to ARPL majors. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-2152 (3) Geographic Info Systems

Focuses on construction and use of computer-based information systems to represent and manipulate geographic data. Emphasizes the recording, mapping, and transforming of data for analysis and use by planners. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3001 (3) Environment and Behavior

Examines the social and behavioral aspects of relationships between people and the designed environment. Gives special attention to antecedent factors (why we have the environments we do), implications of given arrangements for special population groups, and responses to incongruent environments. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | Social Factors

ENVD-3002 (3) Design Theory and Methods

The nature of design and systematic methods for improving design. Topics include: nature of design problems; structure of design process; theory of form; problem definition; generating solution ideas; evaluation; roles of form and function. Students use computers without having to learn to program. Open to nonmajors.

Program in Environmental Design | Environmental Design | Methods and Techniques

ENVD-3003 (3) Site Planning

Introduces the site planning process including: site analysis and its relationship to building program and site concept, and preparation of site plans. Emphasis is placed on the planning of the physical site through a thorough understanding of process, land use, site constraints and synthesis of ecological, functional and aesthetic considerations in the site planning process. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3004. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to College of Architecture and Planning majors only.

Program in Environmental Design | Environmental Design | Physical Factors

ENVD-3004 (3) History of Landscape Architecture

Investigates landscape architectural thought from antiquity to the present. Begins with a review of Greek ideals and proceeds - through an appreciation of landscape and nature as essential cultural constituents - with a survey of major themes such as Renaissance Humanism, the Picturesque, and the varieties of Modernism, Neo-Eclecticism and most recent directions in landscape and garden design. Prereqs., ENVD 2120, 3122, 3124. Coreqs., ENVD 2130, 3003. Restricted to College of Architecture and Planning undergrads. Prerequisites: Requires prerequisite courses of ENVD 2120, ENVD 3122, and ENVD 3124. Restricted to Environmental Design majors only.

Program in Environmental Design | Environmental Design | History and Theory

ENVD-3009 (1-6) Special Topics in Environmental Design

Provides a seminar or design lab on special issues in environmental design, including study abroad. May be repeated up to 18 total credit hours. Variable topic class. Recommended prereq., ENVD 1004 and 1052. Prerequisites: Restricted to Environmental Design (ENVD) majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Miscellaneous](#)

ENVD-3015 (3) Introduction to Historic Preservation

Introduces methods for identifying historic structures and evaluating their materials. Considers techniques for preserving and restoring and legal options for promoting preservation efforts. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Technology and Practice](#)

ENVD-3022 (3) Technical Photography

Introduces students to the technical and practical aspects of making photographic images: the workings of the camera and lens, principles of depth of field, black and white film processing, printing, and basic darkroom procedures. Open to nonmajors on a space available basis. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-3052 (3) Introduction to Computer Methods in Environmental Design

Surveys existing and emerging computer methods used in the environmental design professions, with an introduction to computer programming. Open to nonmajors with instructor consent.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-3100 (6) ENVD Studio--Architectural Design

Exposes students to a sequence of design investigations that lead to the development of design concepts for critical evaluation and discussion. The intent of this introductory design studio is to expose students to the fundamental design practices that are common to the disciplines of environmental design, planning, urban design and landscape design - that share the responsibility for shaping the designed environment. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3115. Restricted to ARPL students only. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-3110 (6) Architecture Studio 1

The first of four upper-division studios introduces students to the basic strategies and techniques of architectural design. Focuses on the languages of design, as well as on traditional and digital methods of visualizing architectural ideas and forms. Prereq., ENVD 2110.

Restricted to junior/senior ARCH majors.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-3115 (3) Introduction to Building Materials and Systems

Surveys building methods, materials, and assemblies from the designer's perspective. Prereqs., ENVD 2130, 3003, 3004. Coreqs., ARCH 3114, ENVD 3100. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Technology and Practice](#)

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ENVD

ENVD-3122 (3) Research Issues and Methods in Design and Planning

Explores topics of current interest in planning. Looks at the development and social consequences of the neighborhood movement, forms of municipal and regional governments, regional settlement patterns, and new communities. Introduces selected methods from the social sciences used by planners and urban designers. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 2120, 3124. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-3124 (3) Issues in Planning History

Broadly introduces physical environmental planning in the U.S., examining both historical roots and recent trends in American planning concepts and implementation. Emphasizes an analytical and critical approach to historical and contemporary planning issues, mechanisms, and cases. Prereqs., ENVD 1102, 1104, 2003. Coreqs., ENVD 2120, 3122. Prerequisites: Requires prerequisite courses of ENVD 1102, ENVD 1104, and ENVD 2003. Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-3152 (3) Introduction to Computer Graphics Applications

Explores principles and uses of computer graphics in design. Topics include creation and modification of complex two- and three-dimensional objects; orthographic and perspective views; use of color; input using mouse and digitizer; output using screen, plotter, matrix printer, and slides; automated aids for form generation and manipulation; and analysis of current and future trends of computer usage for design. May be repeated up to 12 total credit hours. Prereq., ENVD 1052, 1102. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-3200 (1-6) Advanced ENVD Studio

Design studio dealing with problems at an intermediate level of complexity: emphasis is on the interaction of form, use, and multiple values and technologies in conjunction with issues and techniques drawn from other content area courses of the curriculum. Recommended prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-3212 (3) Color Theory

Illustrates color media techniques for the preparation, composition, and presentation of landscape and built environment drawings. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-3220 (6) Planning Studio 2

See ENVD 2120. Prereq., ENVD 2120. Restricted to PLAN majors. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-3252 (3) Computer Graphic Programming

Provides an introductory computer programming course designed to teach the capabilities of a computer in providing graphic representations of environments, including buildings. Open to nonmajors.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-3300 (3-6) Special Topics: Intermediate Design Lab

Design lab exploring new and emerging themes in environmental design. May be repeated up to 18 total credit hours. Prereqs., ARCH 3114, ENVD 3100, 3115. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-3310 (6) Architecture Studio 2

The second of the four upper-division studios focuses on concepts of medium-scale building design, siting, and climate. Through a number of design exercises, students learn how these factors help shape buildings. Prereq., ENVD 3110. Formerly ENVD 3210. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-3320 (2) Planning Practicum

Supervised practicum in some aspect of urban or regional planning. Prereq., ENVD 3220.

Program in Environmental Design Environmental Design Studios

ENVD-3352 (3) Architectural Computer Media

Introduces the integration of computing and the architectural design process and related representational tasks. Studies common computer-aided design programs, emphasizing two- and three-dimensional and animation techniques. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design Environmental Design Methods and Techniques

ENVD-3909 (1-6) Independent Study

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

Program in Environmental Design Environmental Design Miscellaneous

ENVD-3919 (1-6) Teaching Assistant

By special arrangement with instructor. Prereq., junior standing and 3.00 GPA. Available for pass/fail credit only.

Program in Environmental Design Environmental Design Miscellaneous

ENVD-4005 (3) Design and Planning Law

Teaches students how to research the various codes and to draft and pass laws. Covers environmental, water quality, property, zoning, and building codes and laws. Prereq., ENVD 2130.

Program in Environmental Design Environmental Design Technology and Practice

ENVD-4009 (1-6) Special Topics in Environmental Design

Provides a seminar or design lab on special issues in environmental design, including study abroad. May be repeated up to 18 total credit hours. Variable topic class. Recommended prereq., ENVD 2120. Prerequisites: Restricted to Environmental Design (ENVD) majors only.

Program in Environmental Design Environmental Design Miscellaneous

ENVD-4012 (3) Imagination and Creativity

Offers a seminar on imagination and creativity in environmental design. Students research and prepare a class presentation and paper on a topic of interest. Open to nonmajors at all levels.

Program in Environmental Design Environmental Design Methods and Techniques

ENVD-4023 (3) Environmental Impact Assessment

Provides a field-oriented seminar in current environmental impact controversies. Gives attention to history, theory, and application of impact analysis at state levels for designers, land-use planners, and others involved in resource decision making. Prereq., instructor consent. Open to nonmajors on a space available basis, by instructor consent. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Design majors only.

Program in Environmental Design Environmental Design Physical Factors

ENVD-4031 (3) Thinking Like a Mountain: A New Land Ethic

Critically reviews and analyzes land use policies, the ethics and economics of air and water pollution, regional sustainability, and resource management. Includes critical evaluation of empirical methodologies, and criteria of cultural and social equity. Prereq., junior or senior standing in the college.

Program in Environmental Design Environmental Design Social Factors

ENVD-4035 (3) Solar and Sustainable Design

Introduces aspects of solar technology relevant to the environmental design professions. Includes readings and lectures on the nature of energy limitations, energy needs, and the potential role of solar energy in meeting these needs. Prereq., ENVD 2130.

Program in Environmental Design Environmental Design Technology and Practice

ENVD-4052 (3) Digital Presentation and Portfolio

Introductory course creating interactive web sites. Covers use of Hypertext Markup Language (HTML) and Flash to create linked pages containing text, images animations, menus, and buttons. Covers principles of site navigation, page layout, and graphic design for designers and planners. Credit not granted for this course and ENVD 2352. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design Environmental Design Methods and Techniques

ENVD-4092 (3) Improving Imaging Ability

Offers an advanced course dealing with theories of imaging and methods of improving imaging in the design process. Open to nonmajors.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-4100 (3-6) Advanced Design Lab 1

Design lab exploring new and emerging themes in design. May be repeated up to 18 total credit hours. Prereq., ENVD 3300.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-4112 (3) Architectural Graphics 1

Illustrates techniques of graphics communication and presentation for architectural design. Includes advanced delineation and use of color. Prereq., ENVD 2130.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-4114 (3) History of American Architecture and Urbanism

Surveys architecture, landscape architecture, urban design, and planning in the U.S. from ca. 1600 to the present. Prereq., ENVD 2130.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-4122 (3) Advanced Technical Photography

Focuses on working with a variety of alternative photographic processes intended to give students an array of photographic techniques to incorporate into studio course presentations and portfolio work. Processes include hand-applied color to black and white images, using two or more negatives to produce black and white combination prints, shooting color slides to produce graphic arts, high-contrast black and white prints, and documentary photography of Colorado architecture and urban landscapes using color slide film. Students must provide their own 35mm SLR camera. Prereq., ENVD 3022 or ARTS 2191 or instructor consent.

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ENVD

ENVD-4152 (3) Computer Graphic Applications

Introduces the mechanics of entering 2-D images and 3-D objects into the computer. Once entered, graphics are interactively rotated in space, walked through, and displayed in perspective from any position. Also covers the mechanics of other computer programs allowing additional manipulation of images and objects. Prereq., ENVD 2130.

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ENVD-4192 (3) Improving Imaging Ability 2

Offers an advanced course dealing with theories of imaging and methods of improving imaging in the design process. Open to nonmajors.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-4212 (3) Architectural Graphics 2

Covers development of an architectural set of construction documents combined with job administration, field observation, and guest speakers from related construction and architectural disciplines. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-4233 (3) Environmental Aesthetics

Explores the interdisciplinary field of environmental aesthetics, examining the history of landscape tastes, theoretical approaches to the

study of aesthetic responses, and contemporary attempts to incorporate matters of aesthetics in American planning. Emphasizes developing analytical and critical approaches to aesthetics in the public realm.

Program in Environmental Design Environmental Design Physical Factors

ENVD-4300 (3-6) Advanced Design Lab 2

Design lab exploring new and emerging themes in design. May be repeated up to 12 total credit hours. Prereq., ENVD 4100.

Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design Environmental Design Studios

ENVD-4311 (3) Housing Policies and Practices

A seminar providing students with a descriptive knowledge and analytical understanding of the use and development of residential settings in different political economies, globally divided into advanced capitalist nations, collectivist economies, and the third world.

Prereq., ENVD 2130.

Program in Environmental Design Environmental Design Social Factors

ENVD-4314 (3) Architectural Theory

Surveys, through lectures and readings, the major historical developments and contemporary directions in architectural theory. Prereqs., ARCH 3114 and ARCH 3214. Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design Environmental Design History and Theory

ENVD-4320 (6) Planning Studio 3

See ENVD 2120. Prereq., ENVD 3300.

Program in Environmental Design Environmental Design Studios

ENVD-4322 (1-6) Special Topics: Graphics

Provides an advanced seminar on special issues in design communications. May be repeated for credit by petition. Prereq., ENVD 2130.

Prerequisites: Restricted to Environmental Design majors only.

Program in Environmental Design Environmental Design Methods and Techniques

ENVD-4340 (4-6) Landscape Design Studio

Studio in landscape design. Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-4352 (1-6) Special Topics: Computer Methods

Topics include animation and environmental simulation, computational methods of technical evaluation and optimization, and computational mapping and analysis. May be repeated for credit by petition. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Methods and Techniques](#)

ENVD-4360 (4-6) Historic Preservation Studio

A design studio exploring emerging issues and practices in historic preservation. Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-4361 (1-6) Special Topics: Social Factors in Design

Addresses variable topics in the relationship of human experience and behavior to the built environment, e.g., social research methods in environmental design. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Social Factors](#)

ENVD-4363 (1-6) Special Topics: Physical Factors in Environmental Design

Includes such topics as appropriate technology, public policy and natural hazards, organization of the designing and building process, and physical elements of urban development. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Physical Factors](#)

ENVD-4364 (1-6) Special Topics: History and Historiography of Environmental Design

Provides an advanced seminar on history and historiography of environmental design, e.g., American dwellings. May be repeated for credit by petition. Prereq., ENVD 2130.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-4365 (1-6) Special Topics: Technology and Practice

Provides an advanced seminar on new technologies and issues of professional practice in the environmental design professions. Prereq., ENVD 3100. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Technology and Practice](#)

ENVD-4420 (3) Senior Capstone Seminar

Advanced seminar focuses on theoretical concerns and practical issues inherent in environmental design and planning. Views concerns and issues in terms of setting, processes, and planning and design outcomes. Provides a critical synthesis of the inherently interdisciplinary nature of planning and design education. Open to planning and design studies seniors only, or by instructor consent. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-4440 (6) Landscape Design Studio 2

A preprofessional studio in landscape architecture. Prereq., ENVD 4340.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-4510 (6) Architecture Studio 3

The third of the four upper-division studios focuses on concepts of program, architectural meaning and human behavior in buildings. Through a number of design exercises, students learn how these factors help shape buildings. Prereq., ENVD 3310. Formerly ENVD 4310. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [Studios](#)

ENVD-4550 (4-6) Urban Design Studio

A studio exploring emerging issues and practices Prereq., ENVD 3300. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-4710 (6) Architecture Studio 4

The last of the four upper-division studios focuses on concepts of building technology, context and environmental sustainability. Prereq., ENVD 4510. Formerly ENVD 4410. Prerequisites: Restricted to Environmental Design majors only.

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ENVD-4764 (1-6) Special Topics: Theory and Criticism in Environmental Design

Provides an advanced seminar on theory and criticism in environmental design, e.g., architecture now and introduction to design theory and criticism. May be repeated for credit by petition. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-4794 (3) History of Urban Design and Planning

Examines history of European and American planning and urban design in the late 19th and 20th centuries. Prereq., ENVD 2130. Prerequisites: Restricted to Environmental Design majors only.

[Program in Environmental Design](#) [Environmental Design](#) [History and Theory](#)

ENVD-4909 (1-6) Independent Study

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

[Program in Environmental Design](#) [Environmental Design](#) [Miscellaneous](#)

ENVD-4919 (1-6) Teaching Assistant

By special arrangement with instructor. Pass/fail credit only. Prereq., ENVD 3100 and a 3.00 GPA.

[Program in Environmental Design](#) [Environmental Design](#) [Miscellaneous](#)

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ENVD

ENVD-4929 (1-6) Research Assistant

By special arrangement with instructor. Prereq., ENVD 3100 and a 3.00 GPA.

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ENVD-4939 (1-6) Internship

By special arrangement with instructor and outside sponsor. Pass/fail credit only. Prereq., ENVD 3100 and a 3.00 GPA.

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ENVS

ENVS-1000 (4) Introduction to Environmental Studies

Surveys environmental studies, examining ecological, socioeconomic, political, aesthetic, and technological factors that influence the quality of life on Earth. Required for ENVS majors. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Environmental Studies](#)

ENVS-2000 (4) Applied Ecology for Environmental Studies

Covers how ecological ideas and principles underlie both the problems and solutions of multiple environmental issues. The ecology of environmental concerns ranging from endangered species to global carbon cycling will be reviewed, including perspectives from physiological, behavioral, population, community, and ecosystem ecology. Prereqs., ENVS 1000 and EBIO 1030, 1040 and 1050, or EBIO 1210, 1220, 1230 and 1240. Recommended prereq., a course in introductory statistics. Similar to EBIO 2040. Credit not granted for this course and EBIO 2040.

[College of Arts & Sciences](#) [Environmental Studies](#)

ENVS-2100 (3-4) Topics in Applied Environmental Studies

Covers a variety of topics not currently offered in the curriculum: offered depending on instructor availability and student demand. May be repeated up to 6 total credit hours, provided the topics vary. Prereq., ENVS 1000.

[College of Arts & Sciences](#) [Environmental Studies](#)

ENVS-2840 (1-6) Independent Study

Students work with an approved faculty sponsor to explore a topic in greater depth and to pursue an interest that is not offered in the formal curriculum. May be repeated up to 8 total credit hours. Prereq., ENVS 1000.

College of Arts & Sciences Environmental Studies

ENVS-3001 (3) Sustainable Solutions Consulting

Introduces students to green design, industrial ecology, and life cycle analysis. Students use basic techniques of environmental auditing to analyze the CU-Boulder campus. Prereq., any two-semester science sequence. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) majors only.

College of Arts & Sciences Environmental Studies

ENVS-3020 (3) Advanced Writing in Environmental Studies

Offers training in critical thinking and analytical writing skills appropriate to upper-division classes. Writing assignments integrate the subject matter of different topical areas. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) majors only.

College of Arts & Sciences Environmental Studies

ENVS-3030 (3-4) Topics in Environmental Social Sciences

Covers a variety of topics that fulfill the social science requirement in the Environmental Studies major. Topics may include human ecology, environment and society, and quantitative environmental social science. Offered depending upon instructor availability and student demand. Prereq., ENVS 1000. Not repeatable for credit.

College of Arts & Sciences Environmental Studies

ENVS-3032 (3) Environment, Media & Society

Examines how mass media influence our society, specifically with regard to environmental issues and outcomes. Focuses on media influence over environmental politics and policy, environmental public opinion, popular culture, and environmental/scientific knowledge.

College of Arts & Sciences Environmental Studies

ENVS-3040 (4) Conservation Biology

Applies principles of population ecology, population genetics, biogeography, animal behavior, and paleobiology to the maintenance of biodiversity and natural systems. The resulting theory is then applied to conservation policy and management techniques. Prereq., EBIO 2040 or 2640. Same as EBIO 3040.

College of Arts & Sciences Environmental Studies

ENVS-3070 (3) Energy and the Environment

Examines contemporary issues in energy consumption and its environmental impact, including fossil fuel use and depletion; nuclear energy and waste disposal; solar, wind, hydroelectric, and other renewable sources; home heating; energy storage; fuel cells; and alternative transportation vehicles. Includes some basic physical concepts and principles that often constrain choices. No background in physics is required. Same as PHYS 3070. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Environmental Studies

ENVS-3100 (3) Topics in Applied Environmental Studies

Covers a variety of topics not currently offered in the curriculum; offered depending upon instructor availability and student demand. May be repeated up to 6 total credit hours, provided topics vary. Prereq., ENVS 1000.

College of Arts & Sciences Environmental Studies

ENVS-3103 (3) Applied Environmental Studies: Mining in Four Corners

Explores mining related issues that have pronounced impact on the environment, economy and politics of the Four Corners region. Students apply their basic knowledge of environmental science, policy and values toward the understanding of and productive discourse about the conflicts and opportunities brought about by the mining industry in the Four Corners region. Course includes a seven day field trip, visiting mining and reclamation sites in New Mexico, Utah and Colorado. Fulfills application requirement for Environmental Studies majors. Prereq., ENVS 1000 and one year natural science.

College of Arts & Sciences Environmental Studies

ENVS-3140 (3) Environmental Ethics

Examines major traditions in moral philosophy to see what light they shed on value issues in environmental policy and the value presuppositions of the economic, ecological, and juridical approaches to the environment. Prereq., sophomore standing or PHIL 1100, 1200, 2200, 3100, or 3200. Same as PHIL 3140. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Environmental Studies

ENVS-3434 (3) Introduction to Applied Ecology

Emphasizes the integration of physical, chemical, and biological processes in controlling terrestrial and aquatic ecosystems. Ecosystem

concepts are applied to current environmental and water quality problems. Includes field trips and a group project. Prereq., CHEM 1111 or CHEN 1211 and 1221. Same as CVEN 3434.

College of Arts & Sciences Environmental Studies

ENVS-3520 (3) Energy and Climate Change: An Interdisciplinary Approach

Examines sources of energy and other resources in light of their availability, use, environmental impact, as well as their impact on policy, economics and values. As fossil fuels are the dominant energy source today, particular emphasis is placed on climate impacts and the carbon cycle. All material is assessed through the lenses of the physical sciences, policy, ethics and economics. Prereq., a two-course sequence in any natural science. May be repeated up to 6 total credit hours. Same as GEOL 3520. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Environmental Studies

ENVS-3521 (3) Climate Politics and Policy

Engages students in exploring the realm of contemporary and historical climate policy at three major levels of government: international, national and local/regional. Through course lectures, discussions, readings and activities, students will become conversant with the actors, mechanisms and concerns involved in climate policy and politics, and develop their own sense of how to judge the success of climate policies.. Prereq., ENVS 1000.

College of Arts & Sciences Environmental Studies

ENVS-3600 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system, including the hydrological cycle and its role in climate, climate stability, and global change. Covers forecasting climate, its applications, and human dimensions. Prereqs., ATOC 1050 and 1060, or ATOC 3300/GEOG 3301, or GEOG 1001 and 1-semester calculus. Same as GEOG 3601 and ATOC 3600. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Environmental Studies or Geography majors only.

College of Arts & Sciences Environmental Studies

ENVS-3621 (3) Energy Policy and Society

Examines how society makes decisions about energy, and how these decisions affect the environment and the economy. Uses tools from policy analysis, economics, and other disciplines to build an in-depth understanding of energy's role in U.S. contemporary society. Recommended prereqs., ENVS/PHYS 3070.

College of Arts & Sciences Environmental Studies

ENVS-3800 (3) The Art of Research: The Essential Elements of Research in Environmental Studies

Introduces students to the practice of doing research in environmental studies. Examines how to define a research problem, select methods, design research, construct arguments and evaluate others' research. Aims to familiarize students with the process of doing research and enable them to proceed with confidence in pursuing their own research topics. Recommended for juniors planning to write ENVS honors theses. Prereq., ENVS 1000. Recommended prereq., ENVS 3020. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Environmental Studies

ENVS-3930 (1-3) Internship

Relates classroom theory to practice. Provides academically supervised opportunities for environmental studies majors to work in public and private organizations on projects related to students' career goals. May be repeated up to 6 total credit hours.

College of Arts & Sciences Environmental Studies

ENVS-4027 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between (a) inequality and democratic decision making and (b) undemocratic decision making; U.S. and corporate food and energy policy; and global environmental degradation. The course also focuses on the role that global inequality plays in fostering environmental degradation. Restricted to juniors/seniors. Same as SOCY 4027.

College of Arts & Sciences Environmental Studies

ENVS-4050 (2-4) Field Studies in Environmental Sciences

Includes field-oriented courses offered at irregular intervals during academic year or during summer sessions.

College of Arts & Sciences Environmental Studies

ENVS-4100 (1-3) Topics in Environmental Policy

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated up to 9 total credit hours, provided the topics vary. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Environmental Studies

ENVS-4120 (1-3) Topics in Environmental Sciences

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated upto 6 total credit hours, provided the topics vary. Restricted to junior and senior ENVS majors.

[College of Arts & Sciences](#) [Environmental Studies](#)

ENVS-4160 (3) Introduction to Biogeochemistry

Covers fundamentals of biogeochemical cycling, emphasizing water, carbon, and nutrient dynamics in terrestrial ecosystems; chemical interactions of atmosphere, biosphere, lithosphere, and hydrosphere, and natural and human-managed environments. Prereqs., GEOL 3320 or EBIO 3270, and CHEM 1011 or higher. Same as GEOL and EBIO 4160

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ENVS

ENVS-4201 (3) Biometeorology

Introduces this interdisciplinary science, studying the interactions between atmospheric processes and living organisms (plants, animals, and humans). Discusses how organisms adapt to a changing environment. Uses a practical, problem-solving approach to explore these interactions. Prereq., GEOG 1001. Same as GEOG 4201.

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ENVS-4795 (3) Field Methods in Zoology and Botany

Class covers research and field methods for biological disciplines associated with natural history museums: vertebrates, invertebrates, and plants. Emphasis is on field research techniques: observations, sampling, collection and preservation methods, and comparisons among elevation zones. Includes 5 field labs, 2 weekend trips, 5 lab practica, experience with several taxonomic experts, and individual research projects. Same as MUSM 4795 and EBIO 4795.

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ENVS-4800 (3) Critical Thinking in Environmental Studies

Examines a specific environmental topic in depth, synthesizing information from complex and controversial issues. Different course sections present different topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) or Geography (GEOG) majors only.

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ENVS-4840 (1-6) Independent Study

May be repeated up to 8 total credit hours. Prereq., ENVS 1000.

College of Arts & Sciences Environmental Studies

ENVS-4990 (3) Senior Thesis

Supervised project involving original research. Open only to environmental studies majors with at least a 3.30 GPA. Thesis proposal must be accepted by honors chairman. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) majors only.

College of Arts & Sciences Environmental Studies

ENVS-5000 (3) Policy, Science, and the Environment

Introduction to methodologies of the policy sciences with emphasis on applications to environmental issues; role of science in decision making; professional roles and responsibilities as a policy analyst. Prerequisites: Restricted to Environmental Studies (ENVS) or Political Science (PSCI) graduate students only.

College of Arts & Sciences Environmental Studies

ENVS-5001 (3) Environmental Philosophy

A survey of the major philosophical issues in environmental studies, comprising key issues in environmental ethics, in environmental political philosophy, and in the philosophy of biology and ecology.

College of Arts & Sciences Environmental Studies

ENVS-5100 (1-3) Special Topics in Environmental Studies

A variety of topics not currently offered in curriculum; offered depending on instructor availability and student demand. May be repeated up to 9 total credit hours, provided the topics vary.

College of Arts & Sciences Environmental Studies

ENVS-5110 (1-3) Topics in Environmental Social Science and Humanities

Covers various topics in the social sciences and humanities in environmental studies. Prerequisites: Restricted to Arts and Sciences, Journalism, Law or Business Graduate Students only.

College of Arts & Sciences Environmental Studies

ENVS-5120 (1-3) Topics in Quantitative Methods

Covers a wide range of quantitative methods used in policy research and their applications. Topics may include decision-making under uncertainty, fundamentals of microeconomics, mathematics of economic efficiency, cost-benefit analysis, system optimization, budgeting, fundamentals or probability, risk assessment, risk perception, risk communication, and decision analysis. Includes practical exercises, as well as readings and discussion, of various strengths and weaknesses of the different methods.

College of Arts & Sciences Environmental Studies

ENVS-5710 (3) Introduction to the Policy Sciences

Provides an introduction to the policy sciences as a distinctive tradition within the policy field. Emphasizes the use of conceptual tools to improve analysis of complex problems. Teaches problem-solving framework that students apply to an issue of their choice. Restricted to graduate students or instructor consent required. Same as PSCI 7016. Prerequisites: Restricted to Environmental Studies (ENVS) or Political Science (PSCI) graduate students only.

College of Arts & Sciences Environmental Studies

ENVS-5720 (3) The Problem Orientation

Teaches basic problem-solving framework for policy analysis. Emphasizes applications to develop policy recommendations for issues selected by students. Includes group projects. Restricted to graduate students or instructor consent required. Same as PSCI 7026.

College of Arts & Sciences Environmental Studies

ENVS-5730 (3) Introduction to the Policy Sciences: The Decision Process

Provides policy sciences frameworks for analyzing policy processes and designing political strategies to influence those processes in the direction of the preferred alternative. Emphasizes applications to problems selected by students for term projects. Restricted to graduate students or instructor consent required. Same as PSCI 7036. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Environmental Studies

ENVS-5740 (3) Context-Sensitive Research Methods

Prepares students to conduct research on topics where data is not obvious or not easily available. Encompasses variations in context and setting as part of data observations. Methods include interviewing protocols, interpretive methods, cluster analyses, case study methodologies, and textual analyses. Restricted to graduate students or instructor consent required. Same as PSCI 7116.

College of Arts & Sciences Environmental Studies

ENVS-5810 (3) Water Resources and Environmental Sustainability

Assesses impacts of climate variability and regional growth on western U.S. water resources, and examines successes and failures of different management strategies, as well as ways that science is used and misused in support of water management. Prerequisites: Restricted to Arts and Sciences, Journalism, Law or Business Graduate Students only.

College of Arts & Sciences Environmental Studies

ENVS-5820 (3) Renewable Energy Policy

Examines the technology, policy and politics of renewables. Technology includes the resource, science, and engineering aspects of renewables. Policy includes various policy levers used to influence renewables. Politics refers to political settings of renewables: how decision-makers perceive them, who supports/opposes policies, and how policies progress through the political process. Prereq., an introductory energy science and technology course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Environmental Studies

ENVS-5830 (3) Critical Issues in Climate and the Environment

Discusses current issues such as ozone depletion, global warming, and air quality for graduate students in nonscientific fields. Provides the scientific background necessary to understand, follow scientific developments, and critically evaluate these issues. Same as ATOC 5000. Credit not granted for this course and ATOC 4800.

College of Arts & Sciences Environmental Studies

ENVS-5840 (3) Global Biogeochemical Cycles

Focuses on the cycling of elements at the global scale with a particular emphasis on human modification of biogeochemical cycles. Major biogeochemical cycles, their past dynamics, present changes, and potential future scenarios will be addressed. Ecosystem to global-scale model of the earth system will be discussed, along with global-scale measurements of element fluxes from satellites, aircraft, and measurement networks. Prereq., general chemistry, some organic chemistry. Same as GEOL 5305. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Environmental Studies

ENVS-5909 (1-3) Independent Study

Only 3 hours of independent study can be used towards degree requirements. May be repeated up to 6 total credit hours for different topics. Prereq., department and instructor consent.

College of Arts & Sciences Environmental Studies

ENVS-5930 (2) Internship

Provides academically supervised opportunities for environmental studies majors to work in public and private organizations on projects related to the students' research and career goals, and to relate classroom theory to practice.

College of Arts & Sciences Environmental Studies

ENVS-6007 (3) Foundations of Environmental Sociology

Provides overview of environmental sociological theory and research including topics such as: public environmental perception, concern, and knowledge; environmentalism as a social movement; environmental justice; energy, technology, and risk; human dimensions of environmental change; and natural hazards and disasters. Same as SOCY 6007.

College of Arts & Sciences Environmental Studies

ENVS-6940 (1) Master's Degree Candidacy

College of Arts & Sciences Environmental Studies

ENVS-6950 (1-6) Master's Thesis

College of Arts & Sciences Environmental Studies

ENVS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Environmental Studies

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Courses

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Subject **Number**

ESBM

ESBM-3100 (3) Introduction to Entrepreneurship

Introduces non-business students to the multiple facets of entrepreneurship and the entrepreneurial process. Entrepreneurship is a process of fundamental transformation: from innovative idea to enterprise and from enterprise to value, entrepreneurship is more than a business practice. Innovation is central to this process and students will be challenged to develop creative solutions to a problem or need. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-3200 (3) Principles of Business for Entrepreneurs

Provides non-business students with a basic understanding of the business principles required to start and grow an entrepreneurial venture. It is intended for individuals who have not taken a marketing, accounting or finance course. This course will focus on two aspects of business that are critical to the success of any new venture: marketing and financial management. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-3700 (3) Entrepreneurial Environments

Introduces entrepreneurship. Addresses opportunity recognition, target markets, industry analysis, business model identification, sources of funding, managing rapid growth, and writing feasibility studies. Examines alternative forms of entrepreneurship such as franchising, corporate entrepreneurship, family business, and social entrepreneurship. Prereqs., BCOR 2000, 2050, 2100, 2150, or BCOR 2000, 2200, 2300, 2400. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-4100 (3) Writing a Venture Plan

Requires non-business students to engage in a rigorous, thoughtful and challenging process essential to planning a new venture. Using their own concept, students will develop a strategy to start and grow a venture. Communicating the plan is an essential element of this course and students will learn when and how to write a plan and make effective presentations. Restricted to non-Business majors with 60-180 units completed. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-4570 (3) Entrepreneurial Finance.

Focuses on the financial concepts, issues, methods, and industry practices relevant to entrepreneurial decision makers. Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Provides an understanding of the segments of the capital markets specializing in start-ups and growth financing. Prereq., BCOR 2200. Restricted to Business majors with 52-180 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-4820 (3) Special Topics in Entrepreneurship

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Entrepreneurship and Small Business Management. Restricted to juniors/seniors.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-4826 (3) Exp. Sem-Social Entrepreneurship: Designing a Better World

See the future through the eyes of entrepreneurs who are addressing global and social environmental problems such as poverty and deforestation. Can the social ventures they create to solve these problems survive over time and will they achieve the impact they seek? We will meet some of these social entrepreneurs and, in teams, write case studies to tell their stories. Restricted to non-Business majors with 60-180 units completed. CESR 4826 and ESBM 4826 are the same course. Prerequisites: Restricted to non-Business majors with 60-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-4830 (3) Entrepreneurship Business Planning and Preparation

Work as part of a small team, with the focus on the process of creating a plan from the business concept and model through all of the elements of a professionally written business plan document. Prereqs., ESBM 3700 and 4570. Same as EMEN 4825. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)

ESBM-4900 (1-3) Projects in Entrepreneurial Companies

Complete projects in preselected entrepreneurial companies. Prereq., instructor consent.

[Leeds School of Business](#) | [Entrepreneurship and Small Business Management](#)



Courses

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ESLG

ESLG-1130 (2) Accent Reduction for Foreign Students

Provides oral activities with authentic English materials to reduce accents and to increase intelligibility for U.S. academic situations. Evaluates individual problem areas and includes one-on-one meetings with the native-speaker instructor. Improves overall articulation and fluency. Does not fulfill humanities or major requirements.

[College of Arts & Sciences](#) [Linguistics](#)

ESLG-1140 (2) Presentation Skills for International Students

Provides instruction and practice to improve classroom oral communication skills necessary for effective participation in the U.S. academic setting, either as an international TA or RA, graduate or undergraduate student. Evaluates individual problem areas and includes digital audio and video recording with extensive feedback from the native-speaker instructor. Improves oral competence and listening comprehension in English for international students. Recommended prereq., ESLG 1130.

[College of Arts & Sciences](#) [Linguistics](#)

ESLG-1210 (2) Academic Writing for Foreign Students

Addresses the development of paragraphs and full-length essays. Focus areas include organization and style, grammar and vocabulary, and conventions of academic writing, including incorporating the ideas of others and citing sources appropriately. Extensive instructor feedback provided. Improves fluency and precision in academic writing. Does not fulfill humanities or major requirements.

[College of Arts & Sciences](#) [Linguistics](#)

ESLG-1222 (2) Advanced Written Composition for Foreign Students

Continued practice in academic writing, including incorporating the ideas of others and citing sources appropriately. Extensive instructor feedback provided. Preparation, writing, and revising of a full-length academic term/research paper or work on chapters for a master's thesis or doctoral dissertation. Does not fulfill humanities or major requirements. Prereq., ESLG 1210 or instructor consent.

[College of Arts & Sciences](#) [Linguistics](#)

ESLG-1410 (3) Academic English Skills for International Students

Provides instruction and practice to improve academic speaking and writing skills for effective participation in U.S. universities. Speaking includes accent reduction and effective communication through oral activities and recordings. Writing addresses development of paragraphs and full-length papers, including organization, grammar, vocabulary, incorporating ideas of others, and citing sources appropriately. Instructor feedback helps students improve fluency in both speaking and writing. Restricted to non-native speakers of English. Credit not granted for this course and ESLG 1130 or ESLG 1210.

[College of Arts & Sciences](#) [Linguistics](#)



Courses

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Subject **Number**

ETHN

ETHN-1022 (3) Introduction to Africana Studies

Overview of Africana studies as a field of investigation, its origins, and history. Formerly ETHN 2002. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Africana Studies](#)

ETHN-1023 (3) Introduction to American Indian Studies

Introduces critical terms, issues, and questions that inform the discipline of American Indian Studies. Examines "historical silences" and highlights how American Indian scholars, poets, and filmmakers use their work to address/redress historical subjects, and represent their Native communities. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

ETHN-1025 (3) Introduction to Asian American Studies

Examines the various factors that define minority groups and their positions in American society using Asian Americans as a case study. Emphasizes the perspectives and methodologies of the discipline of ethnic studies. Formerly AAST 1015. Approved for arts and sciences core curriculum: contemporary societies or human diversity.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Asian American Studies](#)

ETHN-1123 (3) Exploring a Non-Western Culture: Hopi and Navajo

Explores two American Indian cultures, Hopi and Navajo, and cultural interrelationships from the prehistoric through the contemporary period, using an integrated, holistic, and humanistic viewpoint. Same as ANTH 1120. Formerly AIST 1125. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Ethnic Studies American Indian Studies

ETHN-2001 (3) Foundations: Race and Ethnicity in the United States

Introduction to race, ethnicity and gender in the United States. Focuses on the five major racialized groups (African Americans, Asian Americans, Chicanas and Chicanos, European Americans and Indigenous peoples) in the U.S. The course design centers on historical and contemporary ideologies and systems that have constructed and continue to define, shape, and impact the significance of race and ethnicity in our economic, political and social lives. Formerly ETHN 2000.

College of Arts & Sciences Ethnic Studies Crosscultural/Comparative Study

ETHN-2004 (3) Themes in American Culture 1

Enables students to explore various themes in pre-1865 American culture. Examines these themes, which vary each year, in their social context. Formerly AMST 2000. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Ethnic Studies American Studies

ETHN-2013 (3) Critical Issues in Native North America

Explores a series of issues including regulations of population, land and resource holdings, water rights, education, religious freedom, military obligations, the sociopolitical role of men and women, self-governance, and legal standing as these pertain to American Indian life. Formerly AIST 2015. Approved for arts and sciences core curriculum: human diversity or United States context.

College of Arts & Sciences Ethnic Studies American Indian Studies

ETHN-2014 (3) Themes in American Culture 2

Enables students to explore various themes in post-1865 American culture. Examines these themes, which vary each year, in their social context. Formerly AMST 2010. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Ethnic Studies American Studies

ETHN-2203 (3) American Indians in Film

Examines images of American Indians in films produced by, and about, Native peoples. Follows the creation of "the Hollywood Indian"

from still-photography to contemporary motion pictures. Films are analyzed within historical, social, and artistic contexts, and examined in terms of the impact their images have exerted upon American society at large and Native communities in particular. Formerly AIST 2201.

College of Arts & Sciences Ethnic Studies American Indian Studies

ETHN-2215 (3) The Japanese American Experience

Surveys the Japanese American experience, emphasizing post-WWII developments. Gives attention to intragroup diversity having to do with generation, ethnicity, ecology, and gender. Formerly AAST 2210. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Ethnic Studies Asian American Studies

ETHN-2232 (3) Contemporary African American Social Movements

Examines selected case studies of African American collective behavior in a historical context. Emphasizes an in-depth investigation of the continuing African American struggle for social/democratic rights. Formerly BLST 2200. Approved for arts and sciences core curriculum: human diversity or contemporary societies.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-2242 (3) African American Social and Political Thought

Introductory course designed to acquaint students with historical and contemporary thinking, writings, and speeches of African Americans. Formerly BLST 2210. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity or contemporary societies.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-2432 (3) African American History

Surveys African American history. Studies, interprets and analyzes major problems, issues, and trends affecting African Americans from about 1600 to the present. Same as HIST 2437. Formerly BLST 2437. Approved for arts and sciences core curriculum: human diversity or United States context.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-2502 (2) African Dance

Explores the technique, style, and rhythms of various African, Caribbean, and dance forms of the Americas. Music, history, anthropology, and folklore help to enhance the dance and provide a cultural experience. May be repeated up to 6 total credit hours within a term. Same

as DNCE 2501. Formerly BLST 2501.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Africana Studies](#)

ETHN-2536 (3) Survey of Chicana/o History and Culture

Through historical and social scientific studies, novels, autobiographies, testimonies, films, music, and art, this course will provide students a survey of Chicana/o history and culture. Historical overviews of Chicana/o peoples from Mesoamerica; the Spanish Conquest; the historical presence of Chicana/o peoples in the Southwest; the rise of the Chicana/o student and community movements; immigration issues; and the gender, sexuality, and criminalization issues. Formerly CHST 2537. Approved for arts and sciences core curriculum: human diversity or United States context.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Chicana/o Studies](#)

ETHN-2546 (3) Chicana and Chicano Fine Arts and Humanities

Provides foundation for study of Chicano literature, music, the plastic arts, theatre, and film. Also introduces aesthetic and critical concepts and their applications in Chicana and Chicano studies. Formerly ETHN 1036, CHST 1031. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Chicana/o Studies](#)

ETHN-2713 (3) American Indian Literature

Surveys historical and contemporary North American Native American literature. Examines the continuity and incorporation of traditional stories and values in Native Literature, including novels, short stories, and poetry. Same as ENGL 2717.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

ETHN-2732 (3) Survey of African American Literature 2

Chronological study of African American literature from the Depression writers to the present. Same as ENGL 2737. Formerly BLST 2732.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Africana Studies](#)

ETHN-2746 (3) Chicana/Chicano and Mexican Literature

Introduces Chicana and Chicano and Mexican literary studies, focusing on narrative works by Chicana and Chicano writers. Examines diverse range of Mexican writing in Greater Mexico as it addresses recurring issues and themes, including language, race and class, questions of identity, and gender relations. Same as ENGL 2747.

College of Arts & Sciences | Ethnic Studies | Chicana/o Studies

ETHN-2761 (3) Survey of Post-Colonial Literature

Surveys the development of literatures in English in former British colonies. Topics include the spread and adaptation of English language literary forms in Asia, Africa, the Caribbean, and the far new world (Australia and New Zealand). Students learn the causes of the dispersion and the motivations for the clearly different uses of English literary forms in the ex-colonies. Same as ENGL 2767. Formerly ETHN 2762.

College of Arts & Sciences | Ethnic Studies | Crosscultural/Comparative Study

ETHN-3015 (3) Asian Pacific American Communities

Covers the concepts, methods, and theories commonly used in community research, as well as substantive information on selected Asian/Pacific American communities. Emphasizes the ethical/political dimensions of community studies. Prereq., ETHN 2001 or 1025. Formerly AAST 3013. Approved for arts and sciences core curriculum: United States context or contemporary societies.

College of Arts & Sciences | Ethnic Studies | Asian American Studies

ETHN-3026 (3) Women of Color: Chicanas in U.S. Society

Critically explores the Chicana experience and identity. Examines issues arising from the intersection of class, race, and gender. Focuses on controversies surrounding culture and gender through an analysis of feminism and feminismo. Prereq., ETHN 2001 or 2536 or equivalent.. Formerly CHST 3026.

College of Arts & Sciences | Ethnic Studies | Chicana/o Studies

ETHN-3101 (3) Selected Topics in Ethnic Studies

Intensive examination of a particular topic, theme, issue, or problem in ethnic studies as chosen by the instructor. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or equivalent. Formerly ETHN 3100.

College of Arts & Sciences | Ethnic Studies | Crosscultural/Comparative Study

ETHN-3102 (3) Selected Topics in African American Studies

Intensive examination of a particular topic, theme, issue, or problem concerning the African American presence, as chosen by the instructor. Sample offerings could include African American Pop Culture, the Civil Rights Movement, or other African American issues. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001, 2002 or equivalent. Formerly ETHN 3022

ETHN-3103 (3) Selected Topics in American Indian Studies

Examines a particular topic, theme, issue, or problem in American Indian Studies. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or 2003 or equivalent. Formerly ETHN 3023.



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ETHN

ETHN-3104 (3) Selected Topics in American Studies

Critically examines American identity and experiences, past and present, focusing on ethnicity, gender, popular culture, and political culture. Formerly ETHN 2064.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Studies](#)

ETHN-3105 (3) Selected Topics in Asian American Studies

Intensive examination of a topic or issue affecting Asian Americans, such as the Japanese American internment during World War II, or Asian American social movements or community organizations. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 1025 or 2001. Formerly ETHN 3425, AAST 3420.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Asian American Studies](#)

ETHN-3106 (3-6) Selected Topics in Chicana and Chicano Studies

Intensive examination of a particular topic, theme, issue, or problem in Chicana and Chicano studies as chosen by the instructor. May be repeated up to 6 total credit hours within a term on different topics. Prereq., ETHN 1016 or 2001. Formerly CHST 3100.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Chicana/o Studies](#)

ETHN-3136 (3) Chicana Feminisms and Knowledges

Provides insight into the present socioeconomic condition of Chicanas and the concept of feminismo through interdisciplinary study of

history, sociology, literary images, and film portrayals. Prereq., ETHN 2001 or 2536 or equivalent. Same as WMST 3135. Formerly CHST 3135. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Ethnic Studies Chicana/o Studies

ETHN-3201 (3-4) Multicultural Leadership: Theories, Principles and Practices

Focuses on leadership theories and skills necessary for effectiveness in multicultural settings. Students gain understanding of traditional and culturally diverse approaches to leadership and change through comparative analyses of western and non-western theories and practices. Community service required. Prereq., ETHN 2001 or equivalent. Formerly ETHN 3200. Same as INVS 3100 and LDSP 3100. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Ethnic Studies Crosscultural/Comparative Study

ETHN-3212 (3) Introduction to Hip Hop Studies

Examines critical questions posed by hip hop culture. Accentuated in this course are hip hops contributions to the political-economic, philosophical, and sociological study of race, racism, sexism, and sexuality. This course examines the ways in which hip hop, as a new social phenomenon, cultural force and aesthetic form, have influenced contemporary American and global culture. Prereq., ETHN 2001 or 2002.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-3213 (3) American Indian Women

Explores the experiences, perspectives, and status of American Indian women in historical and contemporary contexts. Examines representations of Indigenous women in mainstream culture. Emphasizes the agency of American Indian women-their persistence, creativity, and activism, especially in maintaining Indigenous traditions. Prereq., WMST 2000, 2600 or ETHN 2001 or 2003. Same as WMSt 3210. Approved for arts and sciences core curriculum: human diversity. Formerly AIST 3210. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Ethnic Studies American Indian Studies

ETHN-3252 (3) African American Urban History

Fosters a better understanding and appreciation of the role African Americans have played in the evolution and shaping of urban America. Employs techniques of urban studies to more effectively assess the many dimensions, subtleties, and insensitivities of life in the city. Prereq., ETHN 2001 or 2002 or equivalent. Recommended prereq., a working knowledge of U.S. and Afro-American history. Restricted to juniors/seniors. Formerly ETHN 4252.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-3301 (3) Elements of Religion

Explores universal components of religion, as inferred from religions of the world, ranging from smaller-scale oral to larger-scale literate traditions. Same as ANTH 3300. Formerly ETHN 3300.

[College of Arts & Sciences](#) | [Ethnic Studies](#) | [Crosscultural/Comparative Study](#)

ETHN-3403 (3) Indigenous Rights and Red Power Movement

Deals with historical events involving conflicts between the U.S. government and American Indians. Examples include the role of the FBI in the Pine Ridge Sioux Reservation (1972--76) or the 1864 massacre of the Cheyenne and Arapaho Indians in Colorado territory. Additional courses may relate to tribal governments. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001, 2003, 2013. Restricted to juniors/seniors. Formerly AIST 3400.

[College of Arts & Sciences](#) | [Ethnic Studies](#) | [American Indian Studies](#)

ETHN-3501 (3) Theory/Methods/Writing in Ethnic Studies

Preparation for empirical inquiry in Ethnic Studies. Emphasizes philosophy of social science and cultural studies. Students engage rigorous, theoretical concepts to understand research methods. Prepares students for writing a lengthy, cogent research paper. Prereq., ETHN 2001. Formerly ETHN 3500. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Ethnic Studies (ETHN) majors only.

[College of Arts & Sciences](#) | [Ethnic Studies](#) | [Crosscultural/Comparative Study](#)

ETHN-3502 (3) Historical and Contemporary Issues of African American Women

Explores the social, economic, political, historical, and cultural role of African American women from an interdisciplinary perspective. Special emphasis is placed on African American women's rich oral and literary tradition. Prereq., ETHN 2001, 2002, or WMST 2000 or equivalent. Same as WMST 3505. Formerly BLST 3505.

[College of Arts & Sciences](#) | [Ethnic Studies](#) | [Africana Studies](#)

ETHN-3575 (3) Japanese American Internment: Critical Thinking in Sociocultural Diversity

Offers an historical overview of the Japanese American experience in the United States. Introduces and explores fundamental issues inherent in the study of human beings from the perspective of cultural social difference. Prereq., ETHN 1025 or 2001. Restricted to juniors/seniors. Formerly AAST 3670. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) | [Ethnic Studies](#) | [Asian American Studies](#)

ETHN-3671 (3) People of Color and Social Movements

People of color the world over are struggling for sovereignty, independence, civil and human rights, food security, decent wages and working conditions, healthy housing, and freedom from environmental racism and other forms of imperialism. Course analyzes and brings alive these struggles. Prereq., ETHN 2001 or equivalent. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: human diversity. Formerly ETHN 3675.

College of Arts & Sciences Ethnic Studies Crosscultural/Comparative Study

ETHN-3841 (1-6) Undergraduate Independent Study

Consult the Department of Ethnic Studies for information. May be repeated up to 6 total credit hours. Prereq., ETHN 2001. Department and instructor consent required. Formerly ETHN 3840.

College of Arts & Sciences Ethnic Studies Crosscultural/Comparative Study

ETHN-3954 (3) Methods in American Ethnic Studies

Through structured discussions, selected readings, and written assignments, students develop an understanding of theoretical concepts that engage race, class gender and sexuality in American Ethnic Studies. The emphasis is on critical analysis and theoretical arguments that encourage students to become critical thinkers. Prereqs., ETHN 2001 or 2004 and ETHN 2014 or 2064. Restricted to juniors and seniors. Formerly AMST 3950. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Ethnic Studies American Studies

ETHN-4001 (3) Screening Race, Class & Gender in the U.S. and the Global Borderland

Engaging with the ways in which race, class, gender and sexual oppression intersect, this class examines several film productions by and about diasporic and subaltern subjects (especially children and women) in the U.S./Mexico borderlands, and the urban ethnic metropolises of the global borderlands. Prereq., ETHN 2001 or equivalent ETHN course. Same as FILM 4001. ETHN 4001 and 5001 are the same course. Formerly ETHN 3001.

College of Arts & Sciences Ethnic Studies Crosscultural/Comparative Study

ETHN-4006 (3) Chicana/Chicano Native American Cultures of the U.S.

Theoretically engaged seminar considers intersections of Chicana/o and Native American studies to shape our scholarly understanding of the U.S. and Mexico borderlands. Ethnographies, historical studies, novels, film, and music will be used to understand the processes of Spanish and Euro-American colonization, neocolonialism, identity formation, gender, syncretism, and mestizaje. Prereq., ETHN 2001 or

2536 or equivalent. Formerly CHST 400.

College of Arts & Sciences Ethnic Studies Chicana/o Studies

ETHN-4102 (3) Special Topics in Africana Studies

Variable topic that allows intensive coverage of a subject, theme, or issue in African American studies. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or 2002 or equivalent. Restricted to juniors/seniors. ETHN 4102 and 5102 are the same course. Formerly ETHN 4652/5652. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4106 (3) Special Topics in Chicana and Chicano Studies

Examines a particular topic, theme, issue, or problem concerning Chicana and Chicano studies. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or 2536 or equivalent. Same as ETHN 5686. Formerly ETHN 4686.

College of Arts & Sciences Ethnic Studies Chicana/o Studies

ETHN-4112 (3) African American Educational History

Examines the history of the education of African Americans from early American history until current times. Covers primary, secondary, and higher education. Topics include education of African Americans before 1800, education of African Americans during the period of American slavery, and factors affecting today's education gains. Also covers current research being conducted in higher education. Prereq., ETHN 2001, 2002 or equivalent. Formerly ETHN 3112.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4116 (3) Spoken Word Latino Poetics and Poetry

This is a writing intensive workshop in contemporary poetry writing and Chicana/o and Latina/o poetics-specifically, Nuyorican and Afro-Latino (the Nuyorican Poets Cafe). The purpose of the course is dual-fold: 1) students will be encouraged and empowered to express and develop their poetic voice; 2) students will be challenged to develop and refine their poetic craft. Examines primarily Chicana and Latino specific poetic expression that reflects the cultural mestizaje of Chicano/a and Latina/o peoples. Prereq., ETHN 2001. Recommended prereq., 6 credits in any ETHN class.

College of Arts & Sciences Ethnic Studies Chicana/o Studies

ETHN-4232 (3) The Life and Thought of Martin Luther King Jr

An intensive exploration and examination of the life and thought of the Rev. Dr. Martin Luther King Jr. Special emphasis on the stages of

his life and their corresponding productions. Prereq., ETHN 2001 or 2002 or equivalent. Restricted to juniors/seniors. Formerly BLST 4235.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Africana Studies](#)

ETHN-4272 (3) W.E.B. Du Bois Seminar

Analyzes the life and thought of W.E.B. Du Bois for its contributions to interdisciplinary and intersectional studies. Emphasis will be placed on the innovative interdisciplinary and intersectional nature of Du Bois's epistemology and research methodology, as well as his participation in radical political and social movements. Prereq., ETHN 2001 or 2002. Restricted to junior/senior ETHN majors/minors. ETHN 4272 and 5272 are the same course. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Ethnic Studies (ETHN) majors only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Africana Studies](#)

ETHN-4306 (3) The Chicana and Chicano and U.S. Social Systems

Gives special attention to ways U.S. institutions (i.e., legal, economic, educational, governmental and social agencies) affect Chicanas and Chicanos. Discusses internal colonialism, institutional racism, assimilation and acculturation, and identity. Prereq., ETHN 2536 or equivalent. ETHN 4306 and 5306 are identical courses. Formerly CHST 4303.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Chicana/o Studies](#)

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Courses

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ETHN

ETHN-4504 (3) Ethnic-American Autobiography

Investigates the genre of autobiography in America from its inception to the present. American autobiography has been associated with the invention of national character and, thus, is a site of cultural contestation and identity formation. Its changing form crosses disciplinary lines and provides a site for discourses on ethnicity, class, gender, sexuality, age, family, religion and other American cultural conflicts. Prereq., ETHN 2001 or equivalent. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Studies](#)

ETHN-4521 (3) Applied Cultural Anthropology

Analyzes problems of cultural change due to contacts between people of different cultures. Restricted to senior ANTH or ETHN majors. Same as ANTH 4510. Formerly ETHN 4520.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

ETHN-4553 (3) Indigenous Representations in the United States

Examines the relationship and negotiation of culture/status/place through representation(s) within and concerning Indigenous peoples/communities. Focuses on U.S. representational forms in popular experiences e.g., literature, film, media and the roots of those representations via legal and medical definitions. This investigation and analysis is supplemented with focus on gender as well as contextualization through global Indigenous portrayals. Recommended prereq., ETHN 2003 or 2013. ETHN 4553 and 5553 are the same course.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

ETHN-4563 (3) North American Indian Acculturation

Comprehensive survey of changes in the native cultures of America north of Mexico caused by occupation of the continent of Old World populations, including a review of processes of contact, environmental changes, changes in major institutions, the nature of federal/state administration, the reservation system, and contemporary developments. Prereq., ETHN 2001 or 2003. Restricted to junior/senior ANTH or ETHN majors. Same as ANTH 4560. Formerly AIST 4565. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Ethnic Studies American Indian Studies

ETHN-4632 (3) Frantz Fanon Seminar

Analyzes the life and thought of Frantz Fanon for its contributions to interdisciplinary and intersectional studies. Emphasis will be placed on the innovative interdisciplinary and intersectional nature of Fanon's psychology, sociology and philosophical anthropology, as well as his participation in African and Caribbean anti-colonial movements. Prereq., ETHN 2001 or 2002. ETHN 4632 is restricted to junior/senior ETHN majors/minors. ETHN 4632 and 5632 are the same course. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Ethnic Studies (ETHN) majors only.

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4672 (3) Seminar on the Civil Rights and Black Power Movements

A review of the ideas, events, persons, organizations oriented to the quest for African American social justice in the decade of the sixties. Prereq., ETHN 2001 or 2002. Restricted to juniors/seniors or instructor consent. Formerly BLST 4670. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4692 (3) Contemporary African American Literature 1

Advanced in-depth study of works of prominent African American novelists and poets. Prereq., ETHN 2001 or 2002. Restricted to juniors/seniors. Same as ENGL 4697. Formerly BLST 4692. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Ethnic Studies Africana Studies

ETHN-4841 (1-6) Independent Study

Work with an approved faculty sponsor to explore a topic in greater depth. May be repeated up to 6 total credit hours for different topics. Prereq., department and instructor consent.

College of Arts & Sciences Ethnic Studies Crosscultural/Comparative Study

ETHN-4951 (3) Senior/Graduate Seminar in Ethnic Studies

Capstone experience in Ethnic Studies. Includes an independent research project and public presentation. Prereqs for ETHN 4951 are ETHN 2001, 3501 and 4511 or equivalent. ETHN 4951 is restricted to students with 57-180 credits (junior or senior). ETHN 5951 is restricted to graduate students. ETHN 4951 and 5951 are identical courses. Formerly ETHN 4950. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

ETHN-4961 (3) Honors Thesis I

Supervised project involving original research in the emerging field of ethnic studies. The thesis is submitted to the Honors Program of the College of Arts and Sciences and is orally defended. Prereqs., ETHN 2001 and ETHN 4511. Formerly ETHN 4960. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Ethnic Studies (ETHN) majors only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

ETHN-4971 (3) Honors Thesis II

Prereqs., ETHN 2001, 4511, and 4961. Formerly ETHN 4970. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Ethnic Studies (ETHN) majors only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

ETHN-5001 (3) Screening Race, Class & Gender in the U.S. and the Global Borderland

Engaging with the ways in which race, class, gender and sexual oppression intersect, this class examines several film productions by and about diasporic and subaltern subjects (especially children and women) in the U.S./Mexico borderlands, and the urban ethnic metropolises of the global borderlands. Prereq., ETHN 2001 or equivalent ETHN course. Same as FILM 4001. ETHN 4001 and 5001 are the same course. Formerly ETHN 3001.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

ETHN-5102 (3) Special Topics in Africana Studies

Variable topic that allows intensive coverage of a subject, theme, or issue in African American studies. May be repeated up to 6 total credit hours on different topics. Prereq., ETHN 2001 or 2002 or equivalent. Restricted to juniors/seniors. ETHN 4102 and 5102 are the same course. Formerly ETHN 4652/5652.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Africana Studies](#)

ETHN-5106 (3) Special Topics in Chicana and Chicano Studies

Examines a particular topic, theme, issue, or problem concerning Chicanas and Chicanos. May be repeated up to 6 total credit hours on

different topics. Same as ETHN 4106. Formerly ETHN 5686. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Chicana/o Studies](#)

ETHN-5272 (3) W.E.B. Du Bois Seminar

Analyzes the life and thought of W.E.B. Du Bois for its contributions to interdisciplinary and intersectional studies. Emphasis will be placed on the innovative interdisciplinary and intersectional nature of Du Bois's epistemology and research methodology, as well as his participation in radical political and social movements. Prereq., ETHN 2001 or 2002. Restricted to junior/senior ETHN majors/minors. ETHN 4272 and 5272 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Africana Studies](#)

ETHN-5306 (3) The Chicana and Chicano and U.S. Social Systems

Gives special attention to ways U.S. institutions (i.e., legal, economic, educational, governmental and social agencies) affect Chicanas and Chicanos. Discusses internal colonialism, institutional racism, assimilation and acculturation, and identity. Prereq., ETHN 2536 or equivalent. ETHN 4306 and 5306 are identical courses. Formerly CHST 4303.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Chicana/o Studies](#)

ETHN-5553 (3) Indigenous Representations in the United States

Examines the relationship and negotiation of culture/status/place through representation(s) within and concerning Indigenous peoples/communities. Focuses on U.S. representational forms in popular experiences e.g., literature, film, media and the roots of those representations via legal and medical definitions. This investigation and analysis is supplemented with focus on gender as well as contextualization through global Indigenous portrayals. Recommended prereq., ETHN 2003 or 2013. ETHN 4553 and 5553 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [American Indian Studies](#)

ETHN-5632 (3) Frantz Fanon Seminar

Analyzes the life and thought of Frantz Fanon for its contributions to interdisciplinary and intersectional studies. Emphasis will be placed on the innovative interdisciplinary and intersectional nature of Fanon's psychology, sociology and philosophical anthropology, as well as his participation in African and Caribbean anti-colonial movements. Prereq., ETHN 2001 or 2002. ETHN 4632 is restricted to junior/senior ETHN majors/minors. ETHN 4632 and 5632 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Africana Studies](#)

ETHN-5951 (3) Senior/Graduate Seminar in Ethnic Studies

Capstone experience in Ethnic Studies. Includes an independent research project and public presentation. Prereqs for ETHN 4951 are ETHN 2001, 3501 and 4511 or equivalent. ETHN 4951 is restricted to students with 57-180 credits (junior or senior). ETHN 5951 is

restricted to graduate students. ETHN 4951 and 5951 are identical courses. Formerly ETHN 4950. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

ETHN-6011 (3) Race and Sexuality Studies

Examines primary texts in queer studies and queer theory while challenging colonial heteronormative and homonormative studies that exclude queers of color and their life experiences. Readings include works by Gloria Anzaldua, Jose Munoz, Audre Lorde, David Eng, Judith Butler, Judith Halberstam, and Michel Foucault. Topics such as queer borderlands, citizenship, racialized and transgender identities will be interrogated. Restricted to grad students. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

ETHN-6101 (1-6) Topics: Specialized Comparative Studies

Focuses on a variety of advanced interdisciplinary studies. Themes include: Race and Sports, Critical Whiteness Studies, Race and Masculinity, Applied Community Engagement, Black Women in the Diaspora, US/Mexico Border Cultures, Criminalization and Latinas/os, Race, Violence and Film, and Cuba and Tourism. May be repeated up to 6 total credit hours. Recommended prereq., ETHN coursework. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

ETHN-6841 (1-6) Advanced Directed Readings in Ethnic Studies

This is a graduate level directed readings course designed to expand student knowledge in a particular area of concentration with a broad interdisciplinary and comparative framework. These areas of concentration include work in Africana, American Indian, Asian American, Chicana and Chicano and Transnational/Hemispheric ethnic studies. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Ethnic Studies](#) [Crosscultural/Comparative Study](#)

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EVEN

[EVEN-1000 \(1\) Introduction to Environmental Engineering](#)

Introduces students to environmental engineering as an academic major and a career. Covers air quality, aquatic ecology, chemical processing, energy, site remediation, and water resources and treatment. Includes reading and writing on the history of environmental engineering, major environmental issues, and professional ethics.

[College of Engineering & Applied Science](#) | [Environmental Engineering](#)

[EVEN-2840 \(1-3\) Independent Study: General Topics](#)

General topics relating to environmental engineering. One-on-one assistance with an instructor.

[College of Engineering & Applied Science](#) | [Environmental Engineering](#)

[EVEN-4100 \(3\) Environmental Sampling and Analysis](#)

Introduces students to hands-on environmental sampling and analysis techniques for characterization of surface water, subsurface water, soils and sediments, and air. Laboratories include stream sampling, drilling, monitoring well installation, water level, slug tests, air sampling. Prereqs., CVEN 4404 and 4414, fluid mechanics, or instructor consent.

[College of Engineering & Applied Science](#) | [Environmental Engineering](#)

[EVEN-4830 \(3\) Special Topics](#)

EVEN-4840 (1-3) Independent Study: General Topics

General topics relating to environmental engineering. One-on-one assistance with an instructor. May be repeated up to 6 total credit hours.

EVEN-4980 (3) Senior Thesis 1

Provides faculty-supervised independent research in environmental engineering for students planning to complete a senior thesis. To be taken prior to EVEN 4990, during the final year before graduation. Instructor consent required. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Environmental Engineering (EVEN) majors only.

EVEN-4990 (3) Senior Thesis 2

Continuation of EVEN 4980. Consists of final phase of faculty-supervised research, the preparation of a written thesis, and an oral defense of the research to a committee. Prereq., EVEN 4980.



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FARR

FARR-1000 (1) Farrand Service-Learning Practicum: Special Topics

Offers a varying service-learning practicum experience as corequisite to a service-learning lecture course. May be repeated up to 6 total credit hours, provided the practica are different. Graded pass/fail.

[College of Arts & Sciences](#) [Farrand Residential Academic Program](#)

FARR-1003 (1) Banned Books and the First Amendment

Focuses on a heated topic of discussion since the Constitution was drafted: the censorship of books. This class will look at some classics in literature: *Catcher in the Rye*, *The Color Purple*, and *Huck Finn*, and will explore the questions of why they were controversial and whether censorship of books is ever justified. Graded pass/fail.

[College of Arts & Sciences](#) [Farrand Residential Academic Program](#)

FARR-1004 (1) Teen Trials and Tribulations in Literature

Discusses major themes and literary strategies in coming-of-age literature. Pass/fail only.

[College of Arts & Sciences](#) [Farrand Residential Academic Program](#)

FARR-1005 (1) Comics and the Interpretive Arts

Explores comic books as literature and visual art. This course will introduce methods of literary analysis and apply them to a specific medium of art: the comic book. Discussions will focus on content and form and will be guided by questions about the way in which art is

defined and categorized. Graded pass/fail.

College of Arts & Sciences Farrand Residential Academic Program

FARR-1561 (1) Nonviolence for Everyday: Meditation and Other Helpful Habits

Focuses on the challenge of achieving nonviolence on a day-to-day basis by maintaining a peaceful, focused frame of mind. Explores ways to train the mind, including methods that may aid healing.

College of Arts & Sciences Farrand Residential Academic Program

FARR-1562 (3) Gandhi's Satyagraha: Love in Action for Humans and Other Creatures

Class texts and films explore social justice and structural violence in regard to humans, animals, and the environment in the light of a Gandhian approach to these issues. Outreach work in the community is included.

College of Arts & Sciences Farrand Residential Academic Program

FARR-2000 (3) Farrand Seminar in the Humanities and the Arts

Studies an aspect of the theme of the Center for Humanities Seminar Program each year, and will be taught by faculty participants in the Center's fellowship program. May be repeated up to 6 total credit hours.

College of Arts & Sciences Farrand Residential Academic Program

FARR-2002 (3) Literature of Lifewriting

Examines how diverse writers have created unique personal narratives that shape memory within historical and social contexts. Works will exemplify a wide range of literary structures, themes, and strategies that enhance an understanding of the genre and provide models for students' own lifewriting assignments. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Farrand Residential Academic Program

FARR-2510 (3) Exploring Good and Evil through Film

Eighteen films depict our capacities for good and evil. Topics addressed include the following: the Holocaust, Jung's concept of "The Shadow," the Seven Deadly Sins, altruistic and sociopathic personalities, capital punishment, the redemptive narrative, and the satanic in

film. Same as FILM 2613. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences [Farrand Residential Academic Program](#)

FARR-2660 (3) Ethics of Ambition

Through selected readings in classical literature on ethics and through more contemporary readings and films, examines critical ethical issues relating to the competition of ambitions and the alternative styles of choosing between courses of action in a dangerous world. Uses biographies of those whose lives illustrate both the complexities of the struggles and the profundity of possibilities. Considers the unconscious metaphors of national visions and ambitions, the competing ethics of ends and means, the conflicting ambitions in a pluralistic society, and the transcendent ambitions of visionaries. Same as HONR 2250. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences [Farrand Residential Academic Program](#)

FARR-2820 (3) Future of the Spaceship Earth

Examines major ecological, political, economic, cultural, legal, and ethical issues that will shape the future. Students consider how their decisions influence the future, and reflect on fundamental values and ideals underlying the search for solutions to these complex problems. Approved for the arts and sciences core curriculum: ideals and values.

College of Arts & Sciences [Farrand Residential Academic Program](#)



Courses

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FILM

FILM-1002 (3) Film Analysis for Non-Majors

Introduces the critical study of film, exploring theoretical, historical, and technical concerns while presenting a survey of important film periods and genres. Students will hone critical-thinking, close-analysis, and writing skills. The course will cover a wide variety of films, approaching them from numerous perspectives, considering both the effects films have on individual viewers and their ability to reflect culture.

[College of Arts & Sciences](#) [Film Studies](#) [Genre and Movements](#)

FILM-1502 (3) Introduction to Film Studies

Introduces the technical and aesthetic principles behind the production, consumption, analysis, and interpretation of films. The purpose of this class is to help us understand and think about movies critically, as technological, cultural, and artistic products. We will study films in different contexts and discuss the importance of movies as cultural expression.

[College of Arts & Sciences](#) [Film Studies](#) [Genre and Movements](#)

FILM-2000 (3) Beginning Filmmaking

Instructs students in making Super-8 films. Covers use of cameras and editing equipment, basic editing and splicing techniques, and analysis of pertinent films. May emphasize making personal, experimental films or making narrative sound films, according to instructor. Students need to purchase materials and rent the necessary equipment. The Film Studies Program maintains an equipment pool with modest rental fees for students needing equipment. Prereq., FILM 1502.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

FILM-2002 (3) Recent International Cinema

Familiarizes students with current trends and major directors in international cinema. Students attend specific films screened in class and/or offered in the International Film Series, and read and write about these films. Prereq., FILM 1502 or 6 hours humanities courses involving critical writing.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-2003 (3) Film Topics

Varying topics on important individuals, historical developments, groupings of films, film directors, critical and theoretical issues in film. May be repeated up to 9 total credit hours, provided the topics are different.

College of Arts & Sciences | Film Studies | Topics

FILM-2005 (3) Movies and Screenplay Analysis

Analyzes the narrative structure of films and screenplays. Familiarizes students with the specific narrative characteristics of the classic motion picture, the three-act structure, and the multiple tasks involved in the process of adaptation. Dissects the form and structure of feature films through analyzing movies and screenplays. Prereq., FILM 1502.

College of Arts & Sciences | Film Studies | Workshops

FILM-2010 (3) Moving Image Computer Foundations

Provides students with artistic foundational hands-on experience in integrated use of media software in both the PC and Mac creative imaging making digital working environments. Includes fundamentals in general computer maintenance, creative and practical audio editing, image management and manipulation, and creative moving image practice. Restricted to Film (FILM or FMST) majors only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-2105 (3) Introduction to the Screenplay

Explores, through close reading and original student work, the form and structure of the screenplay from the writer's perspective. Students will begin by analyzing structural and character elements of such screenplays as Chinatown and Witness, then analyze screenplays of their choosing. Students will learn the basics of screenwriting form, then develop and write 10 minutes of an original screenplay. Prereq., FILM 1502. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

College of Arts & Sciences | Film Studies | Workshops

FILM-2300 (3) Beginning/Intermediate Filmmaking

Covers basic camera, editing, and splicing techniques for Super-8 film. Equipment is available at the film studies office for a modest rental fee. Prereq., FILM 1502.

College of Arts & Sciences Film Studies Production

FILM-2312 (3) Film Trilogies

Study of films designed as trilogies, drawing on a wide range of international cinema. Films include Satyajit Ray's Apu Trilogy (India), Krzysztof Kieslowski's Three Colors Trilogy (Poland), Francois Truffaut's Antoine Doinel cycle (France), and Abbas Kiarostami's Iran Trilogy (Iran). Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences Film Studies Genre and Movements

FILM-2500 (3) Introduction to Cinematography

Film production class focusing on developing a basic understanding of the aesthetics and principles of Cinematography. Through projects, screenings, and critiques, students learn creative camera lighting processes. Prereqs., FILM 1502 and 2000 or 2300 with an averaged combined grade in these two courses of 3.00, with a minimum overall GPA of 2.0. Restricted to FILM majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences Film Studies Production

FILM-2513 (3) Major Asian Filmmakers

Surveys the major Asian directors from China, India, Japan, Taiwan, and Vietnam. Recommended prereq., FILM 1502. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences Film Studies Topics

FILM-2521 (3) Classics of the Foreign Film: 1960s to Present

Surveys the classics of international cinema from the 1960s to the present. Recommended prereq., FILM 1502. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences Film Studies History

FILM-2610 (3) Animation Production

Includes analysis of independent and experimental animation and an introduction to various animation techniques (object, line, collage, sand or paint on glass, Xerox, cameraless, pixellation, etc.). Students produce exercise films and a final film exploring these techniques.

Prereq., FILM 2000 or 2300. Recommended prereq., FILM 2500.

College of Arts & Sciences Film Studies Production

FILM-2613 (3) Exploring Good and Evil Through Film

Eighteen films depict our capacities for good and evil. Topics addressed include the following: the Holocaust, Jung's concept of "The Shadow," the Seven Deadly Sins, altruistic and sociopathic personalities, capital punishment, the redemptive narrative, and the satanic in film. Same as FARR 2510. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Film Studies Topics

FILM-2900 (3) Lighting

Covers the basics of "Why you need lighting", color temp, as well as camera techniques, lighting theory, and lighting set-ups for still and motion picture film video. Emphasizes hands on as well as theory. Prereq., FILM 2000 or 2300. Recommended prereq., FILM 1502.

College of Arts & Sciences Film Studies Production

FILM-3002 (3) Major Film Movements

Historical-aesthetic survey dealing with various national cinemas, taught in conjunction with the appropriate language department. Typical offerings are the French film, the German film, the Russian film, and so on. Also offers a more detailed approach to a more restricted subject, i.e., film comedy, women filmmakers, German expressionist cinema, Italian neorealism. May be repeated up to 12 total credit hours within the same term with departmental consent. Restricted to FILM/FMST majors. Non-majors will need instructor's consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Film Studies Genre and Movements

FILM-3003 (3) Major Film Directors

Focuses on the work of a single director or a group of related directors. Course content varies each semester. Consult the online Schedule Planner for specific topic. May be repeated up to 12 total credit hours with departmental consent. . Non-majors need instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) FILM (FILM or FMST) majors only.

College of Arts & Sciences Film Studies Topics

FILM-3004 (3) Films of Alfred Hitchcock

Intensive, critical investigation of the films of one of cinema's greatest directors, Alfred Hitchcock. Concepts to be examined include authorship, desire, gender, and film acting. Critical and theoretical writings about Hitchcock are explored. Paper and exams required. Restricted to FILM/FMST majors. Non-majors will need instructor's consent.

College of Arts & Sciences | Film Studies | Intensive and Small Courses

FILM-3010 (1-3) Film Production Topics

Offers students both theoretical and practical experience in various specialized areas of cinematic production. Topics vary but include production in the documentary, fictional narrative, animation, computer animation, and experimental genres. May be repeated up to 9 total credit hours. Prereq., FILM 2000 or 2300. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3012 (3) Documentary Film

Provides a historical and theoretical introduction to the documentary film. Examines the historical beginnings of documentary film as well as exploring contemporary documentary practice. Canonical moments of documentary history and lesser known examples of documentary film work will be explored. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3013 (3) Women and Film

Examines the representation of women both in mainstream movies and in women's counter-cinema that resists traditional form, content, and spectator-text relationships of Hollywood models. Emphasizes work by key women filmmakers such as Margarethe Von Trotta, Lizzy Borden, and Yvonne Rainer, as well as readings in feminist film theory. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Film Studies | Topics

FILM-3022 (3) Jung, Film and Literature

The basic themes of C. G. Jung's archetypal psychology (shadow, anima/animus, character typology, and individuation) are studied and applied as tools of critical analysis to selected films and literary texts of the modern period. Instructor consent required. Same as HUMN 3015.

College of Arts & Sciences | Film Studies | Genre and Movements

FILM-3030 (3) Cinema Alternative Process

Explores alternative methods of film processing and filmic image manipulation. Through projects, film screenings, lectures and discussions students will learn fine arts approaches to creative control for the moving image. Prereq., FILM 1502, 2000, 2300 or 2500, or instructor consent. Restricted to BFA majors.

FILM-3032 (3) Stage Tragedy and Film

Presents an aerial survey of the history of Western drama as represented in film: Greek drama, the Elizabethans, Ibsen/Strindberg to O'Neill/Williams, Beckett, etc. Prereq., FILM 1502. Recommended prereq., FILM 3051.



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FILM

FILM-3033 (3) Color and Cinema

Examines color and cinema from historical, technological, aesthetic and theoretical perspectives. Students will be required to complete both creative and scholarly assignments.

[College of Arts & Sciences](#) [Film Studies](#) [Topics](#)

FILM-3042 (3) Horror Film

Serious investigation of the horror film genre as well as its origins in, and relation to, works of romanticist literature (e.g., Poe, Shelley). Issues include: the relation of fantasy and reality; gender in horror film; psychological issues raised by the films; historical issues generated by the genre. Prereq., FILM 1502. Recommended prereq., FILM 3051.

[College of Arts & Sciences](#) [Film Studies](#) [Genre and Movements](#)

FILM-3043 (3) Topics in Critical Film Studies

Prepares students for advanced Film Critical Studies work. Subject matter varies from semester to semester. May be repeated up to 9 total credit hours, provided topics are different. Prereq., FILM 1502 or instructor consent. Restricted to FILM or FMST majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

[College of Arts & Sciences](#) [Film Studies](#) [Topics](#)

FILM-3051 (4) Film History 1

Intensive introduction to film history from 1895 to 1935. Topics covered include the beginnings of motion picture photography, the growth

of narrative complexity from Lumiere to Griffith, American silent comedy, Soviet theories of montage, German expressionist films, and the transition to sound. Prereq., FILM 1502.

College of Arts & Sciences Film Studies History

FILM-3061 (4) Film History 2

Starts with the late 1930s and early 1940s films of Renoir and Welles and follows the historical growth and evolution of film aesthetics to the present. Studies Italian neorealist, French new wave, and recent experimental films, as well as the films of major auteur figures such as Bergman, Kurosawa, Fellini, Hitchcock, Bunuel, Antonioni, and Coppola. Prereqs., FILM 1502 and 3051, or instructor consent.

College of Arts & Sciences Film Studies History

FILM-3081 (3) American Film in the 1980s and '90s

Examines the relationship between American films of the 1980s and '90s and their cultural and historical context. Includes films by Lynch, Stone, Solondz, Scott, Scorsese, Lee, Duynne, Lemmons, Tarantino, Altman. Controlled enrollment. Prereqs., FILM 1502, 3051, 3061, or instructor consent.

College of Arts & Sciences Film Studies Production

FILM-3104 (3) Film Criticism and Theory

Surveys the range and function of film criticism, introduces major positions and concepts of film theory, and focuses on students' abilities to write about film. Prereq., FILM 1502. Restricted to FILM, FMST, and HUMN majors. Same as HUMN 3104.

College of Arts & Sciences Film Studies Intensive and Small Courses

FILM-3211 (3) History of Russian Cinema

Surveys Russian cinema in historical and cultural context from early 20th century to the present. Prereq., FILM 1502 or RUSS 2221. Same as RUSS 3211. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Film Studies Production

FILM-3301 (3) Contemporary Issues in Russian Film

Examines the relationship between politics, economics, aesthetics, and the way moral and social issues are treated in noteworthy Russian films from the last 20 years. Same as RUSS 3301.

College of Arts & Sciences Film Studies History

FILM-3400 (3) Cinema Production I

Exploration of creative cinema production through short production and post-production projects. A short final project will be required. Focuses on the tactics and strategies of independent cinema production, examining a variety of approaches to genre. Explores a range of film and digital technologies. Restricted to Film (FILM or FMST) majors only. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreqs., FILM 3515 and 3525. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences Film Studies Production

FILM-3402 (3) European Film and Culture

Studies the relationships between European film, art, and culture. Offered each summer in a different European city (viz, Rome, Paris, London, Athens, Barcelona). There will be regular in-class lectures, film screenings, field trips, and on-site teaching. May be repeated up to 12 total credit hours. Recommended prereq., introductory film and art history courses. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Film Studies Genre and Movements

FILM-3422 (3) Genre: The Hollywood Musical

Second only to jazz, some critics regard the Hollywood musical as the greatest American popular art form of the 20th century. This course proposes a historical, formal, and theoretical approach to the musical through its several iterations, from the classical, to the revisionist, to the unusual, placing the changes in the genre's form, structure, and ideology in the context of America's changing social, political, and religious values. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences Film Studies Genre and Movements

FILM-3503 (3) German Film Through World War II

History and theory of Weimar and Nazi film with sociocultural emphasis. Taught in English. Same as GRMN 3503.

College of Arts & Sciences Film Studies Topics

FILM-3504 (3) Topics in German Film

Analyzes key issues in German culture as they are represented in film and other media, e.g., technology, architecture, women, and the Holocaust. Taught in English. May be repeated up to 6 total credit hours provided the topics are different. Same as GRMN 3504.

College of Arts & Sciences Film Studies Intensive and Small Courses

FILM-3513 (3) German Film and Society 1945-1989

Introduces issues in German society through film during the Cold War. Focus on East and West Germany, though some other German language films may be included. Emphasis is on reading films in their social, historical, and political contexts. Taught in English. Same as GRMN 3513.

[College of Arts & Sciences](#) [Film Studies](#) [Topics](#)

FILM-3514 (3) German Film & Society After 1989

Introduces post-1989 German culture through film. The course emphasizes films in their socio-historical contexts and explores developments in German culture during and after the unification. Taught in English. Same as GRMN 3514.

[College of Arts & Sciences](#) [Film Studies](#) [Intensive and Small Courses](#)

FILM-3515 (2) Camera Workshop

Focuses on the development of independent cinema production and post-production skills. The instructor must certify students in order to continue with their BFA studies. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreq., FILM 3400. Restricted to BFA film studies majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

[College of Arts & Sciences](#) [Film Studies](#) [Workshops](#)

FILM-3525 (2) Cinema Editing Workshop

Focuses on the development of independent cinema post-production skills. The instructor must certify students in order to continue with their BFA studies. Prereqs., FILM 1502, 2000 or 2300, and 2500. Coreq., FILM 3400. Restricted to BFA film studies majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

[College of Arts & Sciences](#) [Film Studies](#) [Workshops](#)

FILM-3563 (3) Producing the Film

Focuses on the production process of movie making from idea through distribution, analyzing each of the five phases involved, including the major players, function and problems inherent in each. Emphasizes the critical role the script plays in this process. Designed to give students a "map of the minefield" before venturing out on their own. Offered through Continuing Education.

[College of Arts & Sciences](#) [Film Studies](#) [Topics](#)

FILM-3600 (3) Digital Post-Production Process

Through projects, discussions, and screenings, this class explores the practices and aesthetics of computer-based moving-image art editing. Restricted to Film (FILM or FMST) majors only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3603 (3) Sound and Vision

Historical and aesthetic overview of sound in relation to film, ranging from Hitchcock's *Blackmail* to Mailick's *The Thin Red Line*. Pursues issues in sound design, mixing film scores, voiceovers, and film/sound theory in narrative, experimental, and documentary films. Among the filmmakers to be studied are Vertov, Welles, Altman, Brakhage, Lipsett, Eisenstein, Coppola, Scorsese, Stone, Leone, Godard, Nelson. Also explores a limited practicum using Pro Tools for sound design. Prereq., FILM 1502. Recommended prereq., FILM 3051.

College of Arts & Sciences | Film Studies | Topics

FILM-3620 (3) Experimental Digital Animation

Instructs students in the making of digital animation. Covers the use of the exposure sheet, frame series manipulation, digital motion techniques, and an analysis of pertinent films. Emphasis is on digital tools to create individual, personal, or experimental animated works. Includes experimental techniques of transfer between digital media and film. Prereq., FILM 2610. Recommended prereqs., FILM 3030 and FILM 3400 or 3600.

College of Arts & Sciences | Film Studies | Production

FILM-3660 (3) The Postmodern

Analyzes the cultural and critical practices as well as the thought that defines the postmodern period at the end of twentieth century. Prereq., HUMN 2000 or junior/senior standing. HUMN 3660 and FILM 3660 are the same course. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Film Studies | History

FILM-3700 (3) Digital Audio Design

Studies and applies Pro Tools as a post-production audio toolbox. Applied techniques include sound recording, sound editing, field recording, foley, vocal recording and editing, plug-in generated sound creation, MIDI, basic scoring principles, audio sweetening, and audio mixing. Students will be required to complete regular editing assignments in addition to a final soundscape project. Prereq., FILM 2000 or 2300, 2500, and 3400 or 3600. Restricted to BFA majors. Prerequisites: Restricted to Film (FILM or FMST) majors only.

College of Arts & Sciences | Film Studies | Production

FILM-3900 (1-3) Independent Study (Production)

May be repeated up to 6 total credit hours. Limit of 3 credit hours per semester.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

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FILM

FILM-3901 (1-3) Independent Study (Critical Study)

May be repeated up to 6 total credit hours. Limit of 3 credit hours per semester.

[College of Arts & Sciences](#) [Film Studies](#) [History](#)

FILM-3920 (3) Professional Seminar

Learning aspects of professional development in the field of cinema. Through workshops and assignments students will learn of the many opportunities found within all areas of production. Guests will help inform the students of professional options and expectations. Topics will include: crew work, fund raising, marketing festivals, low budget filmmaking, and alternative venues. Students may have an internship concurrently with this course. May be repeated up to 6 total credit hours. Recommended restriction to Film (FILM or FMST) majors only. Prereq., FILM 2500.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

FILM-3940 (1-6) Film Studies Internship

Provides students with professional internship experiences with film, video, new media production companies, governmental agencies, production units, audio recording studios, and new media industries. Students will be responsible for securing their own internship position. May be repeated up to 9 credit hours. Prereqs., must be a BA or BFA film studies major with a CU GPA of at least 2.00, upper-division standing, and a 3.00 GPA as a BA or BFA film studies major. Offered pass/fail only. Prerequisites: Restricted to Film (FILM or FMST) majors only.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

FILM-4000 (3) Advanced Digital Postproduction

Through projects, discussions, and screenings, this class explores the advanced practices and aesthetics of computer-based moving-image art editing. Topics include how to edit and manage a postproduction cycle, how to use digital editing systems and capabilities such as compositing, digital audio, and optical effects treatments. Prereqs., FILM 1502, 2000 or 2300, 2500, and 3400 or 3600, or instructor consent. Restricted to BFA FMST majors. Cannot be taken simultaneously with FILM 3400 or 3600. Same as ARTF 5000.

College of Arts & Sciences Film Studies Production

FILM-4001 (3) Screening Race, Class & Gender in the U.S. and the Global Borderland

Engaging with the ways in which racial, class, gender and sexual oppression intersect, this class examines several filmic productions by and about diasporic and subaltern subjects (especially children and women) in the U.S./Mexico borderlands, and the urban ethnic metropolises of the global borderlands. Prereq., ETHN 2001 or equivalent ETHN course. Same as ETHN 4001.

College of Arts & Sciences Film Studies History

FILM-4003 (3) Film and Fiction

Explores similarities and differences between literature and film as narrative arts. Studies several novels, short stories, and plays and films made from them. Examines problems in point of view, manipulation of time, tone, structure, and setting. Same as ARTF/COML 5003.

College of Arts & Sciences Film Studies Topics

FILM-4004 (3) Topics in Film Theory

Provides topic-centered analyses of controversial areas in film theory. Students read extensive materials in the topic area, analyze and summarize arguments as presented in the literature, write "position" papers, and make oral presentations in which they elaborate their own arguments about specific assigned topic, establishing critical dialogue with the primary materials. May be repeated up to 6 total credit hours. Prereq., FILM 3051 or instructor consent. Same as HUMN 4004 and ARTF 5004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) FILM (FILM or FMST) or Humanities (HUMN) majors only.

College of Arts & Sciences Film Studies Intensive and Small Courses

FILM-4005 (3) Screenwriting Workshop: Short Form

A writing intensive course that focuses on the art of the short form screenplay. Students will complete regular writing exercises, presentations, and several short scripts. May be repeated up to 6 total credit hours. Prereq., FILM 3400 or 3600. BFAs only. Prerequisites: Restricted to sophomore, junior or senior FMST majors only.

College of Arts & Sciences Film Studies Workshops

FILM-4010 (1-3) Topics in Film Studies-Production

Prepares students for advanced Film Studies production courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as ARTF 5010.

College of Arts & Sciences Film Studies Production

FILM-4013 (3) Film, Photography and Modernism

Provides interdisciplinary study of film, photography, and modernism, focusing on issues such as dystopia, alienation, sexuality, subjectivity, and self-referentiality. Photographs by Stieglitz, Strand, Weston, Evans, Cartier-Bresson, Kertesz, and Moholy-Nagy. Films by Dziga-Vertov, Eisenstein, Resnais, Antonioni, Bergman, Bunuel, and Bertolucci. Prereq., FILM 1502. Recommended prereq., FILM 3051. Same as ARTF 5013.

College of Arts & Sciences Film Studies Topics

FILM-4021 (3) Directing/Acting for the Camera

Offers an intensive workshop that provides students with experience directing dramatic material, acting before a camera, and interpreting or adopting dramatic material for film. No experience in directing or acting required. Attendance, research, and papers required. Recommended prereq., FILM 1502. Same as ARTF 5021.

College of Arts & Sciences Film Studies History

FILM-4023 (3) Topics in International Cinema

Focuses on major international filmmakers who have had a decisive impact on world cinema. Students will learn how directors create their own innovative body of work with specific formal and thematic patterns, and will also learn to place such work within multiple frameworks that will cover film history, theory, aesthetics, philosophy, and social and cultural analysis. May be repeated up to 6 total credit hours provided topics are different. Prereq., FILM 1502. Recommended prereqs., FILM 3051 and 3061. Restricted to FILM, FMST, ARTC majors. Same as ARTF 5023. Prerequisites: Restricted to Film (FILM or FMST) or Fine Arts - Creative Arts (ARTC) majors only.

College of Arts & Sciences Film Studies Topics

FILM-4024 (3) Advanced Research Seminar

Focuses on a specific topic, director, or genre chosen by the professor. Research skills and critical thinking are emphasized. With faculty guidance, students determine individual projects and present them to the class. Class participation is mandatory. Each student submits a thorough and original research paper for a final grade. May be repeated up to 6 total credit hours. Prereq., FILM 1502. Recommended prereqs., FILM 3051, 3061. Same as ARTF 5024.

College of Arts & Sciences Film Studies Intensive and Small Courses

FILM-4030 (3) Visiting Filmmakers Seminar

Examines creative issues in contemporary cinema art. Graduate and advanced undergraduate students explore filmmaking ideas with guest artists within a seminar setting. Filmmakers, videographers and programmers of national and international reputation, with an emphasis on "experimental" practice, interact with graduate and advanced undergraduate students, and discuss their work at seminar meetings, public lectures or events. May be repeated up to 6 total credit hours. Restricted to Film (FILM or FMST), Fine Art -Studio Arts (BASA), or Fine Arts-Creative Arts (ARTC) majors only. Recommended prereqs., FILM 1502 and 4453. Same as ARTF 5030. Prerequisites: Restricted to Film (FILM or FMST), Fine Art -Studio Arts (BASA), or Fine Arts-Creative Arts (ARTC) majors only.

College of Arts & Sciences Film Studies Production

FILM-4043 (1-3) Topics in Film Studies-Critical Studies

Prepares students for advanced Film Studies critical studies courses. Subject matter varies each semester. May be repeated up to 9 total credit hours, provided the topics are different. Same as ARTF 5043.

College of Arts & Sciences Film Studies Topics

FILM-4105 (3) Advanced Screenwriting

Introduces professional screenwriting, in the form of a creative writing workshop. Admission by portfolio (see film department). Students write scenes and scripts for short films, feature treatments, etc., and are graded on a final portfolio. Prereq., approved writing sample. Recommended prereqs., FILM 3051 and 3061. Same as ARTF 5105.

College of Arts & Sciences Film Studies Workshops

FILM-4135 (3) Art and Psychoanalysis

Explores psychoanalytic theory as it relates to our understanding of literature, film, and other arts. After becoming familiar with some essential Freudian notions (repression, narcissism, ego/libido, dreamwork, etc.), students apply these ideas to works by several artists (e.g., Flaubert, James, Kafka, Hoffmann, and Hitchcock). Prereq., HUMN 2000 or junior/senior standing. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Film Studies Topics

FILM-4200 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and

ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Arts & Sciences Film Studies Production

FILM-4240 (3) Beginning Video Production

Presents a studio course on basic single camera video production strategies and concepts. Through class screenings, projects, demonstrations, discussions, and readings, students gain an introductory familiarity with camera, lighting, sound, editing and the organization and planning involved in a video project. Explores a basic theoretical understanding of video as an art form and its relationship to television, film, art, history, culture. Prereqs., FILM 2000 and 2500 or instructor consent. Same as ARTS 4246.

College of Arts & Sciences Film Studies Production

FILM-4340 (3) Intermediate Video Production

Continuation of beginning video production. Extends the knowledge of single camera video production strategies and concepts. Expands the concept of montage (editing) and strategies to develop a video project through class screenings, projects, discussions, and readings. Furthers theoretical understanding of video as an art form. Prereq., FILM 4240 or instructor consent. Same as ARTS 4346.

College of Arts & Sciences Film Studies Production

FILM-4440 (3) Advanced Video Production

Continuation of intermediate video production. Explores advanced technical skills to control the quality of the video image in production, postproduction, and distribution. Emphasizes self-motivated independent projects, conceptual realization of advanced student work and basic working knowledge of distribution and life as a media artist. Promotes further theoretical understanding of video as an art form. May be repeated up to 9 total credit hours. Prereq., FILM 4340 or instructor consent. Same as ARTS 4446.

College of Arts & Sciences Film Studies Production

FILM-4453 (3) Elective Affinities: Avant-Garde Film and the Arts

Traces the history and aesthetics of avant-garde/ experimental films in light of similar ideas found in the other arts, particularly painting, poetry, photography and music. Topics covered include Dada and the early avant-garde; surrealism and psychodramas; Brakhage and abstract expressionism; feminist arts and film since the 1980s; the idea of the sublime in painting, music, and film; landscape in painting, photography, and film; post-modernism and the cinema; queer theory, gender/identity politics, and aesthetics of recent films; and specific multiple disciplinary artists such as Andy Warhol, Michael Snow, Helen Levitt, and Gunvor Nelson. Prereq., FILM 1502. Same as ARTF 5453.

College of Arts & Sciences Film Studies Topics

FILM-4500 (3) Cinema Production 2

Advanced exploration of creative cinema production through short production and post-production projects. Course focuses on the tactics and strategies of independent cinema production leading to the completion of a BFA thesis project exploring either documentary, experimental, or narrative genres. May be repeated up to 6 total credit hours. Prereq., FILM 3400, 3515 and 3525. Same as ARTF 5500. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Film (FILM or FMST) majors only.

[College of Arts & Sciences](#) [Film Studies](#) [Production](#)

FILM-4505 (3) Screenwriting Workshop: Long Form

Creative writing workshop in which students plan and write a feature-length screenplay with emphasis on format, dialogue, characterization, and story. Prereqs., FILM 1502 and 2000.

[College of Arts & Sciences](#) [Film Studies](#) [Workshops](#)

FILM-4600 (3) Creative Digital Cinematography

Explores creative approaches to single camera digital cinematography through short projects, discussions, and screenings. Relates creative photography and poetic approaches to the digital camera cinema. May be repeated up to 6 total credit hours. Restricted to Film (FILM or FMST) majors only. Prereqs., FILM 2000 or 2300, 2500, and 3400 or 3600, or ARTS 4246 or 5346. Same as ARTF 5600. Prerequisites: Restricted to Film (FILM or FMST) majors only.

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FILM

FILM-4604 (3) Colloquium in Film Aesthetics

Seminar for the serious round table discussion and critique of film as an art form, emphasizing development of appropriate verbal and written language skills for description of film. May be repeated upto 6 total credit hours. Restricted to juniors/seniors. Same as ARTF 5604. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Film Studies](#) [Intensive and Small Courses](#)

FILM-4959 (3-6) Honors Senior Thesis

For exceptional Film Studies majors who wish to write an honors thesis based on independent research or creative work under the direction of a faculty member.

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FNCE

FNCE-3010 (3) Corporate Finance

Covers the theory and practices governing the management of capital in a business firm. Examines the determinants of capital requirements, methods of obtaining capital, problems of internal financial management, and methods of financial analysis. Prerequisites: Requires pre-requisite courses of BCOR 2000 and 2200. Restricted to Business Majors with 52-180 units completed.

[Leeds School of Business](#) [Finance](#)

FNCE-4000 (3) Financial Institutions Management

Analyzes the structure, markets, and regulations of financial institutions. Studies problems and policies of internal management of funds, loan practices and procedures, investment behavior, deposit and capital adequacy, liquidity, and solvency. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Finance](#)

FNCE-4030 (3) Investment and Portfolio Management

Develops modern portfolio theory and applies it to pricing both individual assets and portfolios of assets. Topics include Markowitz portfolio selection model, capital asset pricing model, arbitrage pricing theory, options, futures, bonds, portfolio performance measurement, and issues of market efficiency. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Finance](#)

FNCE-4040 (3) Derivative Securities

Develops the modern theory of contingent claims in a mathematical framework oriented toward applications. Examines how to use

derivatives for risk management and to tailor portfolio payoffs. Provides an in-depth analysis of the properties of options. Prereq., FNCE 3010. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4050 (3) Capital Investment Analysis

Focuses on capital budgeting and investment issues. Emphasizes issues relating to cash flows, capital rationing, the investment versus financing decision, leasing, fluctuating rates of output, investment timing, capital budgeting under uncertainty, and investment decisions with additional information. Prereq., FNCE 3010. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4060 (1-6) Special Topics in Finance

Presents new subject matter in finance. The summer offering is the London Seminar in International Finance and Business. Prereqs. vary depending upon course offering. See advising office.

Leeds School of Business Finance

FNCE-4070 (3) Financial Markets and Institutions

Examines the economics of financial markets and the management of financial institutions, both domestic and international. Topics include an overview of U.S. and international financial markets, pricing and risk factors, interest rates, markets for securities and financial services, and markets for derivative financial instruments. Prereq., BCOR 2200. Restricted to students with 52 hours completed. Formerly FNCE 3020. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4820 (3) Topics in Finance

Offered irregularly to provide opportunity for investigation into new frontiers in finance. May be repeated up to 6 total credit hours. Restricted to 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Finance. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Leeds School of Business Finance

FNCE-4830 (3) Seminar in Investment Banking

Introduces the student to a career in investment banking and provides specific modeling skills necessary and important during the first phase of such a career. Prereq., BCOR 2200. Recommended prereq., FNCE 3010. Restricted to students with 52 hours completed.

Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4831 (3) Seminar in Investment Management

The purpose of this course is for students to understand the investment management profession. The course is designed to be a blend of theory and practice. Extends the basic principles of security analysis, asset pricing theory, portfolio construction, and portfolio performance evaluation. Students will apply these principles in determining, over the semester, how to manage the CU investment fund.

Prereqs., BCOR 2000, 2300, and FNCE 3010. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Finance

FNCE-4832 (3) Microfinance

In the last two decades, microfinance initiatives have provided the primary worldwide impetus to promote economic independence for the poor (1.4 billion). Microfinance seminar links the financial markets with entrepreneurship to create a platform for building a microfinance institution that facilitates financial inclusion to the poor. The students in a semester long project build a hypothetical financial institution that provides access to credit, saving, insurance and more to a segmented poor population, somewhere in the world including the U.S. CESR 4010 and FNCE 4832 are the same course. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 90-180 units completed.

Leeds School of Business Finance

FNCE-4850 (3) Business Senior Seminar in Finance

Develops analytical and decision making skills necessary to address real-world business finance situations. Topics include financial analysis and forecasting, capital budgeting, valuation, capital structure policy, international finance, and financial ethics. Uses a combination of lecture and cases; team and individual work. Prereqs., ACCT 3220, FNCE 3010, 4030, and 102 hours completed.

Restricted to graduating senior FNCE majors. Formerly BCOR 4002. Prerequisites: Requires pre-requisite course of FNCE 3010. Restricted to Finance majors with 102 to 180 units completed.

Leeds School of Business Finance

FNCE-4900 (1-6) Independent Study

Intended only for exceptionally well qualified business seniors. Prereq., prior consent of dean and instructor under whose direction study is taken, and departmental form.

Leeds School of Business Finance

FNCE-6820 (1-3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in finance.

Leeds School of Business | Finance

FNCE-6900 (1-6) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Finance

FNCE-6950 (1-6) Master's Thesis

Leeds School of Business | Finance

FNCE-7100 (3) Doctoral Seminar: Finance Theory

Develops the foundations for the study of modern financial economics by analyzing individuals' consumption and portfolio decisions in the context of risk and then traces the implications to market valuation of traded securities. Topics include the meaning and measurement of risk, portfolio theory, the Capital Asset Pricing Model, and arbitrage pricing arguments like those employed in Modigliani and Miller's capital structure theory and the Black-Scholes option pricing model. Prerequisites: Restricted to Business Administration graduate students only.

Leeds School of Business | Finance

FNCE-7200 (3) Doctoral Seminar: Empirical Research Methods in Finance

Develops an understanding of current empirical methods used to examine research issues related to corporate finance and the capital markets.

Leeds School of Business | Finance

FNCE-7330 (3) Doctoral Seminar: Corporate Finance, Theoretical, and Empirical Issues

Develops and examines theories and issues in corporate finance. Topics may include corporate control, capital structure, financial signaling, and payout policy.

Leeds School of Business | Finance

FNCE-7550 (3) Doctoral Seminar: Special Topics in Finance

Closely examines areas of specific interest to academic research in finance. Subjects vary and may include game theory, stochastic processes in finance, continuous-time modeling, derivative security pricing, the microstructure of securities markets and financial institutions, innovation, and engineering.

FNCE-7800 (3) Doctoral Proseminar: Finance

Provides finance doctoral students with an orientation to the finance field; introduces contemporary research perspectives and priorities. Students discuss papers that illustrate academic researchers' use of various disciplinary theoretical and empirical tools to address finance problems.

FNCE-7830 (1) Doctoral Seminar: Dissertation Research

Assists doctoral students in integrating courses and fields of study in order to apply their knowledge and skills to problems in finance. Gives special attention to development of thesis topics. Continuous enrollment required of all finance doctoral students while doing course work.

FNCE-8820 (3) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in finance.

FNCE-8900 (1-3) Independent Study

Instructor consent and departmental form required.



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FREN

FREN-1010 (5) Beginning French 1

For students with no previous knowledge of French. Presents basic grammar and most commonly used French vocabulary. Introduces students to Francophone culture. Credit not granted for this course and FREN 1050.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-1020 (5) Beginning French 2

Continuation of FREN 1010. Completes the presentation of most basic structures and French vocabulary. Prereq., successful completion of one semester of college-level French or two years of high school French. Credit not granted for this course and FREN 1050.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-1050 (5) Beginning French Review

Covers the material of FREN 1010 and 1020 in one accelerated semester. Intended for students who know some French (i.e., four to five semesters in high school) but do not have skills adequate for 2000-level courses. Credit not granted for this course and FREN 1010 or FREN 1020.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-1200 (3) Medieval Epic and Romance

Covers the most important works of medieval literature, in English translation. Among the texts studied are the Nibelungenlied, the Song

of Roland, and Arthurian romances, including the stories of Lancelot and Guinevere and Tristan and Isolde. Offers a general introduction for nonmajors to medieval literature and society. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1400 (3) Medieval/Renaissance Women Writers in Italy and France

Introduces major literature through close readings of women's writings in their historical context. Offers a general introduction to women's status and roles in Italy and France. Taught in English. Same as ITAL 1400. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian French

FREN-1500 (3) Literature and Politics in the Age of Enlightenment

Introduces political dimensions of 18th century French literature. Surveys political and social preoccupations that manifest themselves across genres (novels, scientific treatises, dialogues, erotic literature, etc.). Examines contributions made by 18th century French writers to the sociological and political imagination of Western tradition. Taught in English.

College of Arts & Sciences French & Italian French

FREN-1610 (3) How to Be French, 1: The Ancien Regime

Explores medieval and early modern French culture in the widest sense, encompassing masterpieces of French literature, architecture, and visual art as a key to the habits, customs, and practices of everyday life. Major themes are "living and dying," "heroes, villains, and kings," "courtliness, civility, and the art of love," and "crafty little guys." Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1620 (3) How To Be French? 2: Modernity

Introduces students to French culture in its widest sense and in particular to reflect on major social and cultural contradictions inherited from the French Revolution, which still define "Frenchness" today. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1700 (3) Francophone Literature in Translation

Studies the literary expression of French-speaking peoples of Africa, the Caribbean, and Canada. Gives special attention to oral tradition, identity, question, and cultural conflict. Taught in English. Approved for GT-AH2.

College of Arts & Sciences French & Italian French

FREN-1750 (3) French Colonialism: North Africa and the Middle East

Offers a general introduction to French and Francophone literature and visual arts (painting, photography, film) from the nineteenth century to the present depicting cultures and societies of the Middle East and North Africa. In English with English translations of French texts. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian French

FREN-1800 (3) Contemporary French Literature in Translation

Reviews the major philosophical, political, and aesthetic issues in the 20th century French novel and drama. Beginning with existentialist literature, discussion focuses subsequently on the Theatre of the Absurd, the new novel, World War II and the Holocaust, and recent women writers. Taught in English.

College of Arts & Sciences French & Italian French

FREN-1900 (3) Modern Paris in Literature, Photographs, Paintings and Movies

Introduces the rise of modern Paris from the French Revolution (1789) to today. Studies the physical and sociological changes of the city in terms of architecture and industrialization through French literature, movies, paintings and photographs. Addresses problems due to the magnitude of the city, the growing fear of urban vices, and the dilemma of controlling massive urban populations. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

FREN-1950 (3) French Feminisms

Introduces students to the central problematics that have defined French feminist studies. This course focuses on the various literary and historical contexts in which core concepts such as female subjectivity and agency, feminist writing and political engagement have arisen and developed in Early Modern and Modern France by looking at multiple media (literary text, film, painting). Taught in English. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian French

FREN-2110 (3) Second-Year French Grammar Review and Reading 1

A film based curriculum will expand the knowledge of francophone culture and will continue the development of communication skills begun in the first year. This third semester course will review essential beginning grammar before introducing intermediate structures, vocabulary, and cultural/literary readings. Prereqs., FREN 1020 and 1050 (min grade C-) or equivalent. Approved for GT-AH4. Meets MAPS requirement for foreign language. Satisfies arts and sciences foreign language requirement.

College of Arts & Sciences French & Italian French

FREN-2120 (3) Second-Year French Grammar Review and Reading 2

Completes the film-based study of intermediate grammar begun in FREN 2110. Continued reading in French literature and culture, with considerable practice in writing and speaking French. Prereq., FREN 2110 (min grade C-). Fulfills the Graduate School language requirement for the Ph.D.

College of Arts & Sciences French & Italian French

FREN-2500 (3) Conversation in French

Puts into practice all that has been learned in the first four semesters of college French. Builds conversational skills and confidence through acquisition of new vocabulary and a review of grammar essential to discussing different aspects of French culture. All work is in French. Prereq., FREN 2120 or equivalent.

College of Arts & Sciences French & Italian French

FREN-3010 (3) French Phonetics and Pronunciation

Improves students' ability to pronounce French correctly. Coursework involves the International Phonetic Alphabet, understanding the differences between pairs of sounds, and recognizing the relationship between spelling and pronunciation. Required of all FREN majors. Prereq., FREN 2120 or equivalent.

College of Arts & Sciences French & Italian French

FREN-3020 (3) French Phonetics Through Musical Performance

Advanced oral practice and interpretation of a French Musical. This course of applied and corrective phonetics concentrates on developing good pronunciation and fluency through song. The course culminates with a public presentation of the musical studied in class. Prereq., FREN 3010 or equivalent and instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-3050 (3) French Composition 1

French third-year level composition course. Students practice and write different forms of formal French writing. They also hone their grammar skills and analytical reading of short literature pieces. Must be taken before FREN 3060. Required for French majors. Prereq., FREN 2120 or equivalent.

College of Arts & Sciences French & Italian French

FREN-3060 (3) French Composition 2

The second semester of a French third-year level composition course. Students build on their previous knowledge of formal writing in French and more emphasis is given to argumentative and analytical style of writing in FREN 3060. Prereq., FREN 3050 or equivalent. Required for French majors.

College of Arts & Sciences French & Italian French

FREN-3100 (3) Introduction to Critical Reading and Writing in French Literature

Study of French literature through close readings of representative examples of major literary forms (poetry, fiction, drama, essay) and through the composition of critical writings in French. Required for French majors. Prereq., FREN 3060. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-3110 (3) Main Currents of French Literature 1

Surveys French literature from the Middle Ages through the 18th century. Students are expected to acquire a fairly detailed knowledge of principal writers and schools of the periods covered. Required for majors. Prereq., FREN 3100. May be taken with FREN 3120. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-3120 (3) Main Currents of French Literature 2

Surveys 19th and 20th century French literature. Close reading of selected texts of the principal writers and schools. Required for majors. Prereq., FREN 3100. May be taken before, after, or with FREN 3110. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-3200 (3) Introduction to Literary Theory and Advanced Critical Analysis

Introduces important aspects of both classical and modern literary theory as an aid to reading and understanding literary texts. Covers theoretical works by figures ranging from Plato and Aristotle to modern French critics such as Barthes, Foucault, and Derrida in conjunction with selected literary works. Offers students more sophisticated means of understanding issues like gender, ethnicity, the roles of both author and reader in constructing meaning, the nature and functions of signs, and the relationship between literature and the larger society. Conducted in English, though French majors are required to read the texts in the original language. Required for students taking honors in French or Italian. Prereq., FREN 3100 or instructor consent. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-3500 (3) French Current Events: Conversation and Composition

For students who have spent fewer than four months in a French-speaking environment. Focuses on presentations, debates, discussions, readings, and written work. Prereq., FREN 3060 or equivalent.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

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Courses

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FREN

FREN-3600 (3) Business French 1

Gives students the tools needed to function in a French-speaking work environment. A culminating project involves creating a business in a francophone country. Prereq., FREN 2120 or equivalent.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-3700 (3) French-American Cultural Differences

Through readings, films, discussion, and activities, students learn the defining values of their own country, those of France, and key differences between the two cultures. Taught in French. Prereq., FREN 3060 or equivalent.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-3800 (3) France and the Muslim World

Introduces students to the polemic colonial, social, and cultural interactions of France and Islam. Close attention will be paid to paradigms of identities of one of the major European nations and the Islamic world. Readings and discussion topics for this course cover the social, cultural, and literary depictions of Islamic and French interactions, negotiations, and contradictions. Taught in English. Restricted to juniors and seniors. Cannot be used for French major or minor credit. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-4030 (3) Advanced Oral Practice and Interpreting

Concentrates on developing (or preserving) speaking fluency, correct pronunciation, and a good working vocabulary. May be repeated once for credit. Prereq., FREN 3060 and/or 3500, or instructor consent.

College of Arts & Sciences French & Italian French

FREN-4110 (3) French Special Topics

Topics vary each semester. Consult the online Schedule Planner for specific topics. See also FREN 4120.

College of Arts & Sciences French & Italian French

FREN-4120 (3) French Special Topics

Topics vary each semester. Consult the online Schedule Planner for specific topics. See also FREN 4110.

College of Arts & Sciences French & Italian French

FREN-4170 (3) Francophone Literature

Studies the literary expression of French-speaking peoples of Africa, the Caribbean, and French Canada. Gives special attention to oral tradition, identity question, and cultural conflict. Prereqs., FREN 3100, 3110, and 3120, or instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-4250 (3) Medieval and Renaissance Readings

Explores the complex and evolving cultural and historical contexts of medieval and Renaissance French. Introduces the masterpieces of French medieval and Renaissance literature, including the Chanson de Roland and Arthurian romance. Also focuses on the work of Marie de France, Guillaume de Lorris, and Jean de Meun, Christine de Pisan, Machaut, Villon, Louise Labe, and the poets of the Pliade, Rabelais, and Montaigne. Prereqs., FREN 3100, 3110, and 3120 or instructor consent.

College of Arts & Sciences French & Italian French

FREN-4300 (3) Theatre and Modernity in 17th Century France

Readings of plays by Corneille, Moliere, and Racine introduce students to theatre's role as a mirror of the multifarious tensions shaping modern Western experience. Taught in English with English translations. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian French

College of Arts & Sciences French & Italian French

FREN-4330 (3) Moliere and 17th Century French Comedy

Close readings of farces and comedies of Moliere in context with selected comedies by Corneille, Rotrou, and Cyrano de Bergerac and selected satires by Boileau and La Fontaine. Themes include comedy as a form of social criticism and the sociocultural significance of such episodes of Moliere's career as the scandalous quarrels of L'ecole des Femmes and Tartuffe. Prereqs., FREN 3100, 3110, and 3120 or instructor consent.

College of Arts & Sciences French & Italian French

FREN-4350 (3) French Enlightenment

Studies fiction, essays, theatre, and philosophical tales. Emphasizes the Enlightenment in France through the texts of its major representatives: Montesquieu, Voltaire, Marivaux, Diderot, and Rousseau. Prereqs., FREN 3100, 3110, and 3120, or instructor consent.

College of Arts & Sciences French & Italian French

FREN-4360 (3) Survey of 18th Century French Literature

Close readings of texts by Voltaire, Rousseau, Diderot, Marivaux, and Beaumarchais. Focuses on the evolution of literary genres and the influence of philosophy, politics, and social change on belles lettres. Prereqs., FREN 3100, 3110, and 3120, or instructor consent.

College of Arts & Sciences French & Italian French

FREN-4430 (3) Survey of 19th Century French Literature

Examines fiction, poetry, and theatre in 19th century France. Focuses on developing and changing literary styles and subject matter throughout the century in historical, philosophical, and social context. Prereqs., FREN 3100, 3110, and 3120, or instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences French & Italian French

FREN-4470 (3) 20th Century French Theatre and Poetry

Close readings of plays from the turn of the century to the contemporary period introduce the principal themes and techniques of modernist and postmodernist French theatre. Students are encouraged to consider problems commonly evoked by these texts, and to compare the positions that each text takes on such problems as the status and uses of language, the function and limits of the theatre, and the dialectic of appearance and reality. Prereqs., FREN 3100, 3110, and 3120, or instructor consent.

College of Arts & Sciences French & Italian French

FREN-4480 (3) 20th Century French Novel

Close readings of novels from the 1930s to the contemporary period introduce the principal themes and techniques of the modernist and postmodernist French novel. Students are encouraged to analyze a variety of questions commonly evoked in these texts, such as the problem of representation, the uses and abuses of writing, the relation of fiction and history, and the status of the subject in the world. Prereqs., FREN 3100, 3110, and 3120 or instructor consent.

College of Arts & Sciences French & Italian French

FREN-4600 (3) Topics in French Film

Covers various topics in the French and some other Francophone cinemas (Belgian, Swiss, Quebecois) from 1895 to the present. Focuses on periods, schools, themes, and directors from Melies to Duras, and the critical approaches by which they are studied. Varies from year to year. May be repeated up to 6 total credit hours on different topics. Prereqs., junior standing and 6 hours in French literature, other literature, or film studies.

College of Arts & Sciences French & Italian French

FREN-4750 (3) Methods of Teaching French and Professional Orientation

Presents current methodology and techniques for teaching foreign language for proficiency. Areas of study include ACTFLFL guidelines, National Standards, assessment, classroom activities, curriculum, and syllabus design. Prereqs., FREN 3100, 3110 or 3120, an additional course above FREN 3060, and admission to the teacher certification program or instructor consent. Restricted to juniors/seniors.

College of Arts & Sciences French & Italian French

FREN-4800 (3) Postmodernist French Novel in Translation

Focuses upon recent innovations in the French novel, and upon the postmodernist literary aesthetic. Students will examine a variety of avant-garde novels, and analyze the kinds of literary experimentation that those novels propose. They will be asked to consider a series of questions concerning the changing nature of literary representation and the status of the novel as a cultural form. Taught in English. Restricted to juniors/seniors. Cannot be used for major or minor credit. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences French & Italian French

FREN-4840 (1-6) Independent Study: Language

Upon consultation only and at the undergraduate level. May be repeated up to 7 total credit hours.

FREN-4860 (3) War, Trauma, and Memory: Amnesias, Revisions, and Representations of Traumatic History

Attempts to investigate how extreme historical events (war, genocides, terror attacks) function as "Trauma" and how these extreme events are dealt with by personal and collective memory in historical narratives, literary and cinematic fiction, and memorials. Amnesia and other types of historical negations or revisions will be analyzed, along with representations of trauma and the difficulties raised by this memorializing. Taught in English. Restricted to juniors/seniors. Cannot be used for major or minor credit. Approved for arts and sciences core curriculum: ideals and values.

FREN-4960 (6) High School French Teaching

Offered as part of the supervised student teaching in a secondary school required for state certification to teach French. These hours do not count toward student hours in the major nor in the maximum departmental hours allowed. Prereq., FREN 4750 or 5770 and admission to the secondary teaching education program. Coreq., EDUC 4712. Pass/fail only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

FREN-4980 (3) French Senior Honors Thesis

The senior honor thesis is a 40 to 45 page original research paper, written in French, and constitutes a requirement for graduating with departmental honors. Prereqs., all third-year course requirements including FREN 3200. Recommended prereq., at least one course numbered FREN 4100 or above.

FREN-4990 (3) Senior Seminar

Preparation of a 15-page research paper in French presented to two members of the department faculty and defended orally in class. Prereq., all third-year requirements and advisor consent. Recommended prereq., at least one course numbered FREN 4100 or above.

FREN-5110 (3) French Special Topics

Different topics are offered and, in a number of cases, cross-listed with other departments. Prereq., graduate standing or instructor consent. May be repeated up to 6 total credit hours on different topics. Prerequisites: Restricted to Graduate Students only.

FREN-5120 (3) French Special Topics

Different topics are offered and, in a number of cases, cross-listed with other departments. Prereq., graduate standing or instructor consent. May be repeated up to 6 total credit hours on different topics.



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FREN

FREN-5170 (3) Francophone African Literature

Prereq., graduate standing or instructor consent.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-5250 (3) Medieval and Renaissance Readings

Through close readings of masterpieces of French medieval and Renaissance literature in conjunction with contemporary criticism and theory, explores the contexts of medieval and Renaissance France. Readings in French. May be taught in English to accommodate students in other programs. May be repeated up to 12 total credit hours on different topics. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-5310 (3) 17th Century French Tragedy and Poetry

Close readings of tragedies by (among others) Corneille and Racine, placed in the context of baroque and neoclassical political and artistic culture as illustrated by philosophy, painting, and science. Drawing on recent criticism and theory, explores heroic drama's role as a symptom and agent of early modern French social and intellectual history. Readings in French, but may be taught in English. Prereq., graduate standing or instructor consent.

[College of Arts & Sciences](#) [French & Italian](#) [French](#)

FREN-5320 (3) 17th Century French Prose

Close readings of major works by, e.g., Descartes, Pascal, La Fayette, La Rochefoucauld, and La Bruyere. Themes include 17th century theories of self, early modern epistemology, notions of honnetete and the critical analysis of human motives and behavior, the emerging novel, and the critique of heroic idealism and of the monarchic absolutism of the Sun King, Louis XIV. Readings in French, but may be taught in English. Prereq., graduate standing or instructor consent.

College of Arts & Sciences French & Italian French

FREN-5330 (3) Moliere and 17th Century French Comedy

Close readings of the comedies in context with the works of, e.g., Corneille, Rotrou, Cyrano, Boileau, and La Fontaine. Themes include Moliere and the institution of literary authorship, comedy's role as social critique, the deconstruction of the early modern subject, and the cultural politics of the scandals surrounding L'ecole des femmes and Tartuffe. Readings in French, but may be taught in English. Prereq., graduate standing or instructor consent.

College of Arts & Sciences French & Italian French

FREN-5350 (3) French Enlightenment

Focuses on the uses of literature to address the revolutionary philosophical, scientific, religious, and/or sociopolitical questions of the day. Explores Diderot and d'alembert's Encyclopedie, Voltaire and Diderot's philosophical tales and dialogues, Rousseau's Discours, and other writings. Discusses the development of specific literary forms to promote the ideas and goals of the philosophers to reach a changing and diverse readership and to fight censorship. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences French & Italian French

FREN-5360 (3) 18th Century French Literature

Focuses on the study of a specific literary genre (e.g., theatre, the novel) or on the global production of a major author (e.g., Voltaire, Diderot, Rousseau). Discussion stresses both the uniqueness of the genre/writer and their significance as representatives of the century's changing society and culture. May be repeated up to 6 total credit hours during a student's graduate career. Prereq., graduate standing or instructor consent.

College of Arts & Sciences French & Italian French

FREN-5420 (3) 19th Century French Literature

A survey of principal works and movements, intended as an introductory course. Prereq., graduate standing or instructor consent.

College of Arts & Sciences French & Italian French

FREN-5430 (3) Topics in 19th Century French Prose, Poetry, and Theatre

Topics vary. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent.

College of Arts & Sciences French & Italian French

FREN-5440 (3) Literary Ludics

Taught in French and English. Focuses on literary structures proposed by author to reader as games. Considers critical texts, both practical and theoretical, with a view toward defining the relation between criticism and its objects. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences French & Italian French

FREN-5470 (3) 20th Century French Theatre and Poetry

Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences French & Italian French

FREN-5770 (2) College Foreign Language Teaching

Required for teaching assistants and graduate part-time instructors. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences French & Italian French

FREN-6840 (1-3) Independent Study

May be repeated up to 3 total credit hours, except with permission of the director of graduate studies. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences French & Italian French

FREN-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences French & Italian French



Courses

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All

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FRSI

FRSI-1010 (5) Beginning Farsi I

Provides a grounding in basic Persian Farsi grammar. The morphological and phonological nuances of the language will be introduced, along with Persian culture. Basic conversation is re-enforced on a daily basis with strong emphasis and reiteration upon the homework and covered grammar.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-1011 (3) Introduction to Persian Civilization

An introduction to the history, literature and art of Iranian (Persian) civilization with a focus on the social and cultural aspects of contemporary Iran. Taught in English.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-1020 (5) Beginning Farsi II

Continuation of FRSI 1010. Completes the presentation of basic structures of Farsi. Continued acquisition of vocabulary and practice of speaking, listening, reading, and writing. Class conducted largely in Farsi. The second half of the course will introduce authentic texts of Persian prose literature. Some poetry may be included. Prereq., FRSI 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-2110 (4) Intermediate Farsi I

Provides an intensive introduction to cultural and literary texts of Iran, along with an introduction of the grammatical and rhetorical complexities of Persian prose and poetry. Students continue to develop speaking, listening, and writing skills through activities based on the readings. Prereq., FRSI 1020 (min. grade C) or instructor consent. Meets MAPS requirement: foreign language. Approved for arts and sciences core curriculum: foreign language. Formerly FRSI 2010.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-2120 (4) Intermediate Farsi II

Continuation of FRSI 2110. Incorporates more readings in Persian literature, both poetry and prose, and cultural readings. Students continue developing speaking, listening and writing skills based on the readings. Prereq., FRSI 2110 (min. grade C) or instructor consent. Formerly FRSI 2020.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-3110 (3) Advanced Farsi I

An intensive introduction to both Persian philology and the contemporary novel. Textual analysis of texts ranging from complex to very complex will enable the students to gain a strong grounding in Persian literary texts. Students continue developing speaking, listening, and writing skills through activities based on the readings. Prereq., FRSI 2020 (min. grade C) or instructor consent. Formerly FRSI 3010.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)

FRSI-3120 (3) Advanced Farsi II

This course is the continuation of Farsi 3110. The focus will be on textual analysis and discussion of authentic texts in a wide variety of genres and a wide range of topics. Students continue developing speaking and listening skills through activities based on the readings and develop the ability to write short papers (3-5 pages) in Farsi. Prereq., FRSI 3110 (min. grade C) or instructor consent. Formerly FRSI 3120.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Farsi](#)



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GEEN

GEEN-1100 (3) Social Impact of Technology

Introduces undergraduate students to the social impact of technology and how technology impacts all aspects of life, the health of planet Earth, and how people interact with each other. Fulfills Engineering social science requirements. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Engineering Administration](#)

GEEN-1235 (4) Pre-Calculus for Engineers

Prepares students for the challenging content and pace of the calculus sequence required for all engineering majors. The course covers algebra, trigonometry and selected topics in analytical geometry. It prepares students for the calculus courses offered for engineering students. It requires students to engage in rigorous work sessions as they review topics that they must be comfortable with to pursue engineering course work. The course is structured to accustom students to the pace and culture of learning encountered in engineering math courses.

[College of Engineering & Applied Science](#) | [Engineering Administration](#)

GEEN-1300 (3) Introduction to Engineering Computing

Introduces the use of computers in engineering problem solving, including elementary numerical methods. Teaches programming fundamentals, including data and algorithm structure, and modular programming. Software vehicles include Excel/Vba and Matlab. Coreq., APPM 1350 or equivalent. Restricted to ENGR majors. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) | [Engineering Administration](#)

GEEN-1350 (1) Calculus 1 Work Group

Provides problem-solving assistance to students enrolled in APPM 1350. Student groups work in collaborative learning environment. Student participation is essential. Grading under pass/fail option only. Coreq., APPM 1350.

College of Engineering & Applied Science | Engineering Administration

GEEN-1360 (1) Calculus 2 Work Group

Provides problem solving assistance for students enrolled in APPM 1360. Conducted in a collaborative learning environment. Student work groups solve calculus problems with assistance of facilitator. Grading under pass/fail option only. Prereq., APPM 1350. Coreq., APPM 1360.

College of Engineering & Applied Science | Engineering Administration

GEEN-1400 (3) Engineering Projects

First-year engineering students work to solve real engineering design problems in interdisciplinary teams. Completed projects are exhibited at an end-of-semester design expo. In lieu of a textbook (available online), each student is expected to contribute up to \$75 towards their design project and poster, and purchase his/her own pair of safety glasses. Restricted to Engineering majors with 75 or fewer cumulative hours. Prerequisites: Restricted to College of Engineering majors with 75 or less cumulative hours.

College of Engineering & Applied Science | Engineering Administration

GEEN-1410 (3) Social Innovation and Design for Sustainable Communities

Learn to apply principles of sustainability to designs. Student teams design solutions integrating scientific and social science perspectives. Emphasis is on the design process applied to sustainable solutions to real world problems. Restricted to students in the Williams Village North RAPs. Prerequisites: Restricted to Sustainability by Design Residential Academic Program (PSBD) or Sustainability and Social Innovation (SSI) Residential Academic Program (PSEE) students only.

College of Engineering & Applied Science | Engineering Administration

GEEN-1500 (2) Introduction to Engineering

Provides an introduction to the engineering profession, to include a focus on the engineering grand challenges of the future, professional and ethical expectations, and an examination of current disciplines specializations. Provides sufficient knowledge of the engineering disciplines necessary to make an informed major choice. Restricted to Engineering Majors with 75 or less cumulative hours. Prerequisites: Restricted to College of Engineering majors with 75 or less cumulative hours.

College of Engineering & Applied Science | Engineering Administration

GEEN-1510 (1) Self Management and Leadership Principles 1

Develops group cohesiveness, mutual support, multicultural awareness, and leadership skills. Topics include collaborative learning, motivation, time management and study skills, personal assertiveness, and career awareness. Open to new freshmen and transfer students. Controlled enrollment. Fulfills one credit hour of the Engineering social science requirement. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Engineering Administration

GEEN-1520 (1) Self Management and Leadership Principles 2

Continuation of GEEN 1510. Controlled enrollment. Prereq., GEEN 1510. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Engineering Administration

GEEN-1550 (1) YOU'RE@CU: Undergraduate Career Seminar

Exposes first or second year undergraduate students to engineering research careers through a partner program (YOU'RE@CU), panel discussions with researchers in academics and industry, and exposure to research labs. Restricted to YOU'RE@CU participants. Restricted enrollment; offered pass/fail only.

College of Engineering & Applied Science | Engineering Administration

GEEN-2050 (3) Engineering Leadership Gateway

Examines concepts of engineering leadership and the essential skills required to become an effective leader. Together students will explore leadership principles, creative and critical thinking, interpersonal skills (e.g. collaboration, conflict resolution, leading in diverse communities), intrapersonal development (e.g. self-appraisal, reflective practice, personal leadership philosophy), organizational competencies (e.g. planning, sustainability, climate), effective communication and ethical decision-making. Instructor consent required. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science | Engineering Administration

GEEN-2350 (1) Calculus 3 Work Group

Provides problem solving assistance to students enrolled in APPM 2350. This course is conducted in a collaborative learning environment. Student work groups solve calculus problems with the assistance of a facilitator. Grading only under pass/fail option. Prereq., APPM 1360. Coreq., APPM 2350.

College of Engineering & Applied Science | Engineering Administration

GEEN-3400 (3) Invention and Innovation

Introduction to invention and product innovation with a hands-on approach. Students explore the invention process, hone their engineering design skills, and explore entrepreneurship (patenting, intellectual property, marketing, raising capital). Student teams design,

create, and test a potentially commercial product, and exhibit at an end-of-semester design expo. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

College of Engineering & Applied Science | Engineering Administration

GEEN-3851 (3) Statics for Engineers

Examines vector treatment of force systems and their resultants; equilibrium of frames and machines, including internal forces and three-dimensional configurations; static friction; properties of surfaces, including first and second moments; hydrostatics; and minimum potential energy and stability. Prereq., PHYS 1110. Recommended coreq., APPM 2350. Same as CVEN 2121.

College of Engineering & Applied Science | Engineering Administration

GEEN-3852 (3) Thermodynamics for Engineers

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as MCEN 3012.

College of Engineering & Applied Science | Engineering Administration

GEEN-3853 (3) Fluid Mechanics for Engineers

Introduces fluid mechanics and momentum transfer, emphasizing the application of these principles to engineering systems. Prereqs., APPM 2350 or 2360, and GEEN 1300 or CSCI 1300. Same as CHEN 3200.

College of Engineering & Applied Science | Engineering Administration

GEEN-3930 (6) Engineering Co-op

Students enrolled in this course participate in a previously arranged, department-sponsored cooperative education program with a university, government agency, or industry. This course is offered only through Continuing Education and may be repeated up to 24 credit hours (four co-op terms). GPA higher than 2.75 is required. GPA higher than 3.00 is strongly recommended.

College of Engineering & Applied Science | Engineering Administration

GEEN-4830 (3) Special Topics

May be repeated up to 6 total credit hours. Prerequisites: Restricted to College of Engineering and Applied Science BS students or BS/MS Concurrent Degree Students only.

College of Engineering & Applied Science | Engineering Administration



Courses

Search by College, Department & Category

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Search by Course Number

Subject **Number**

GEOG

GEOG-1001 (4) Environmental Systems 1---Climate and Vegetation

MLect. and lab. Introduces the atmospheric environment of the Earth: elements and controls of climate and their implications for hydrology, vegetation, and soils. Emphasizes distribution of physical features across the Earth's surface and interactions between humans and their environment, especially those leading to global change on the decade to century time scale. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Geography](#)
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GEOG-1011 (4) Environmental Systems 2---Landscapes and Water

MLect. and lab. Introduces landscapes and flowing water, emphasizing the formation and geographic distribution of mountains, volcanoes, valleys, and deserts, and their shaping by rivers and glaciers. Includes field trips. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab or lab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)
[Geography](#)
[Physical Geography](#)

GEOG-1982 (3) World Regional Geography

Involves an intellectual journey around the globe, stopping at major regions to study the people, their environments, and how they interact. Topics include the political/economic tensions in changing Europe, conflicts in Brazilian rain forests, transitions facing African peoples, and rapid changes in China. Meets MAPS requirement for social science: geography.

[College of Arts & Sciences](#)
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GEOG-1992 (3) Human Geographies

Examines social, political, economic, and cultural processes creating the geographical worlds in which we live, and how these spatial relationships shape our everyday lives. Studies urban growth, geopolitics, agricultural development and change, economic growth and decline, population dynamics, and migration exploring both how these processes work at global scale as well as shape geographies of particular places. Meets MAPS requirement for social science: geography.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-2002 (3) Geographies of Global Change

Familiarizes students with spatial and ecological perspectives on economic, political, social, cultural, and environmental changes. Examines roles of transnational corporations, global media, world cities, food security, labor, migration, human rights, ethnicity, nationalism, resources, environmental degradation, and sustainable development in global change. Meets MAPS requirement for social science: geography.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-2053 (4) Mapping a Changing World

Overviews the vital role cartography plays in modern society and contemporary science. Includes fundamentals of reading and creating maps for research and enjoyment. Lab provides hands-on experience with computer-based methods for creating useful maps.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-2412 (3) Environment and Culture

Examines nature-culture interactions and the effects of development and resource use on environmental quality, as well as practical efforts to manage and protect the environment. Meets MAPS requirement for social science: geography.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3023 (4) Statistics for Geography

Introduces parametric and distribution-free statistics, emphasizing applications to earth science problems. Not open to students who have taken a college-level statistics course. Same as GEOL 3023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Conservation (EVOC), Geography (GEOG), Geology (GEOL) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-3053 (4) Cartography: Visualization and Information Design

Introduction to the fundamentals of cartography--the science and art of map design. Emphasis on map projections, symbolization, and the design of maps with computers. Students produce series of thematic maps with modern computer-assisted techniques. Basic familiarity with computers strongly recommended. Introductory course in statistics recommended (may be taken concurrently). Restricted to junior or senior GEOG/ENVS majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Studies (ENVS) or Geography (GEOG) majors only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-3251 (3) Mountain Geography

Surveys mountain environments and their human use with illustrations from temperate and tropical mountain areas.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3301 (3) Analysis of Climate and Weather Observations

Prereqs., ATOC 1050 and 1060, or GEOG 3601/ATOC 3600/ENVS 3600, or GEOG 1001 and 1-semester calculus. Same as ATOC 3300. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3351 (3) Biogeography

Surveys and analyzes plant and animal distributions on a world scale from ecological and historical perspectives. Emphasizes human impact on species. Prereq., GEOG 1001.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3402 (3) Natural Hazards

Explores the impacts of extreme geophysical events on human society. Emphasizes adaptations to extreme events and ways of reducing vulnerability and damage.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3412 (3) Conservation Practice and Resource Management

Studies inventory, policy, and management of natural resources. Emphasizes practical approaches to the conservation and management of soil, land, water, and air resources. Restricted to geography and environmental studies majors.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3422 (3) Conservation Thought

Lect. and rec. Provides an historical survey of human consumption of earthly materials; environmental and global considerations of population growth, cultural attitude, and technological development; and diverse goals and philosophy of conservation movements intimate and place.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3511 (4) Introduction to Hydrology

Examines hydrologic processes in the surface environment, emphasizing the environment of the western United States. Emphasizes natural processes and their management to augment water resources. Prereq., GEOG 1001 and 1011. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Geography (GEOG), Environmental Studies (ENVS) or Ecology and Evolutionary Biology (EBIO) majors only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3601 (3) Principles of Climate

Describes the basic components of the climate system: the atmosphere, ocean, cryosphere, and lithosphere. Investigates the basic physical processes that determine climate and link the components of the climate system, including the hydrological cycle and its role in climate, climate stability, and global change. Covers forecasting climate, its applications, and human dimensions. Restricted to Geography or Environmental Studies majors only. Prereqs., ATOC 1050 and 1060, or GEOG 3301/ATOC 3300, or GEOG 1001 and 1-semester calculus. Same as ATOC/ENVS 3600. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to Geography or Environmental Studies majors only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-3612 (3) Geography of American Cities

Introduces geography of American cities. Includes demographic and ideological contexts of urban development, emergence of the city system, location theory and rent models, and urban-economic problems.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-3662 (3) Economic Geography

Presents several theories of location of economic activity: general theory of land use, agricultural location theory, plant location theory, central place theory, location of systems of cities, and geographical organization of industries. Studies aggregate geographical structure of regions as the geography of three major markets: labor, product, and capital, including the banking system. Explores the economic

growth of regions and policies designed to influence regional growth and welfare.

College of Arts & Sciences Geography Human and Cultural Geography

GEOG-3672 (3) Gender and the Global Economy

Examines the role of gender in global economy. Explores the impacts of colonialism and modern global economy on gender relations, with particular emphasis on third world societies. Also focuses on related issues of population politics, environmental crisis, women's sexual exploitation, and women's social movements worldwide. Prereqs., GEOG 1982, 1992, 2002, 2412, WMST 2000 or 2050. Same as WMST 3672. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Geography Human and Cultural Geography

GEOG-3682 (3) Geography of International Development

Compares and contrasts global characteristics and processes of development, emphasizing the developing countries of the world. Integrates theories of development, specific development topics, and case studies to explore the problems of development. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

College of Arts & Sciences Geography Human and Cultural Geography

GEOG-3742 (3) Place, Power, and Contemporary Culture

Presents a radical reexamination of the geography of culture. Examines the relationship between places, power, and the dynamics of culture. Explores how the globalization of economics, politics, and culture shapes local cultural change. Looks at how place-based cultural politics both assist and resist processes of globalization. Recommended prereq., GEOG 1982, 1992, or 2002. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Geography Human and Cultural Geography

GEOG-3812 (3) Mexico, Central America, and the Caribbean

Introduces the geography of Latin America, focusing on the lands and peoples of Mexico, Central America, and the Caribbean. Examines regional and national culture, history, environment, and population, as well as ongoing environmental and socioeconomic changes. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412.

College of Arts & Sciences Geography Human and Cultural Geography

GEOG-3822 (3) Geography of China

Surveys the world's most populous country, examining physical and historical geography, urbanization and regional development, agriculture, population, energy, and the environment. Seeks to situate China's development in a broader Asian and global context. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Geography](#) [Human and Cultural Geography](#)

GEOG-3840 (1-6) Undergraduate Independent Study

Provides an independent study opportunity, by special arrangement with faculty, for students presenting strong geography preparation. May be repeated up to 8 total credit hours. Restricted to geography majors. Prerequisites: Restricted to Geography majors only.

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Subject **Number**

GEOG

[GEOG-3862 \(3\) Geography of Africa](#)

Studies physical and cultural regions of Africa. Analyzes and compares natural and cultural regions and the development of present nation-states. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

[College of Arts & Sciences](#) [Geography](#) [Human and Cultural Geography](#)

[GEOG-3930 \(3\) Internship](#)

Provides an academically supervised opportunity for advanced geography or environmental conservation majors to work in public and private organizations on projects related to the student's career goals and to relate classroom theory to practice. May be repeated up to 6 total credit hours. Restricted to geography and environmental studies majors. Prerequisites: Restricted to Geography or Environmental Studies majors only.

[College of Arts & Sciences](#) [Geography](#)

[GEOG-4023 \(4\) Introduction to Quantitative Methods in Human Geography](#)

Introduces fundamental statistical and quantitative modeling techniques widely used in geography today. Emphasizes geographic examples and spatial problems, as are statistical routines now available on most computers. Prereq., GEOG 3023 or equivalent. Same as GEOG 5023. Prerequisites: Requires pre-requisite course of GEOG 3023.

[College of Arts & Sciences](#) [Geography](#) [Techniques \(Skills\)](#)

[GEOG-4043 \(4\) Cartography 2: Interactive and Multimedia Mapping](#)

An advanced course in interactive, multimedia, animated, and Web-based cartography stressing the important role digital cartography

plays in cyberspace. Focuses on principles of effective cartographic design in multimedia and hypertext environments. Labs are organized around hands-on active learning projects. Prereq., GEOG 3053. Same as GEOG 5043.

College of Arts & Sciences Geography Techniques (Skills)

GEOG-4093 (4) Remote Sensing of the Environment

Covers acquisition and interpretation of environmental data by remote sensing. Discusses theory and sensors as well as manual and computerized interpretation methods. Stresses infrared and microwave portions of the spectrum. Same as GEOG 5093 and GEOL 4093.

College of Arts & Sciences Geography Techniques (Skills)

GEOG-4100 (1-3) Special Topics in Geography

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. See also GEOG 4110 and 4120. May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Geography

GEOG-4103 (4) Introduction to Geographic Information Science

Examines construction and use of an information system and its data specifically designed for representing and manipulating geographical data. Emphasizes modern geographical information systems including computer hardware/software with a collection of methods/procedures for recording, transforming, storing/retrieving, analyzing, and mapping geographic data. Prereq., GEOG 2053 or GEOG 3053 and introductory course in statistics. Same as GEOG 5103. Prerequisites: Requires pre-requisite courses of GEOG 2053 or 3053 and introductory course in statistics. Restricted to Junior or Senior Geography (GEOG) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences Geography Techniques (Skills)

GEOG-4110 (1-4) Special Topics in Geography

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. See also GEOG 4100 and 4120. May be repeated up to 6 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Geography

GEOG-4120 (1-3) Special Topics in Geography

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. See also GEOG 4100 and 4110. May be repeated up to 6 total credit hours. Prereq., instructor consent.

GEOG-4173 (3) Research Seminar

Examines the nature of research and develops pregraduate skills for geographic research, emphasizing problem definition, methods, sources, data interpretation, and writing. Recommended for students pursuing honors. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Geography (GEOG) or Environmental Studies (ENVS) majors only.

GEOG-4201 (3) Biometeorology

Interdisciplinary science, studying the interactions between atmospheric processes and living organisms (plants, animals, and humans). Discusses how organisms adapt to a changing environment. Uses a practical, problem-solving approach to explore these interactions. Prereq., GEOG 1001. Same as ENVS 4201.

GEOG-4203 (4) Geographic Information Science: Modeling Applications

Extends basic GIS concepts and mechanics. Develop GIS models for human and environmental applications. Grid and vector data models, tessellated and hierarchical data structures, terrain representation, interpolation and kriging, spatial regression. Small group projects design, implement and run GIS models. Prereq., GEOG 4103/5103 or instructor consent. Recommended prereq., working knowledge of GIS software. Same as GEOG 5203.

GEOG-4241 (4) Principles of Geomorphology

Studies weathering, mass-wasting, fluvial, wind, and marine processes and the resulting landforms. Prereq., GEOG 1011 or any 1000-level sequence in geological sciences. Same as GEOL 4241. Approved for arts and sciences core curriculum: natural science.

Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Environmental Conservation (EVOC), Geography (GEOG), Geology (GEOL) or Environmental Studies (ENVS) majors only.

GEOG-4251 (4) Fluvial Geomorphology

Emphasizes landscapes formed by running water. Includes basic fluid mechanics, sediment transport, hillslope and channel erosion, and sediment yield. Prereqs., Geog 1011 and 3511. Recommended prereq., Geog 3023. Same as Geog 5251.

GEOG-4261 (3) Glaciers and Permafrost

Surveys the major terrestrial components of the cryosphere, including permafrost, glaciers, and ice sheets. Emphasizes physical processes involving ice, including thermal behavior, ice deformation, and mass balance, but also considers biogeochemical processes and landforms associated with ice. The climate context, including human interactions and recent climate history, will be considered. The course will be taught in a combination lecture-seminar format. Prereq., GEOG 1011 or GEOL 1010. Recommended prereq., GEOG 4241.

GEOG-4271 (3) The Arctic Climate System

Understanding the climate of the Arctic requires a synthetic, system oriented approach. The course focuses on the intimate linkages between the atmosphere, ocean and land that give the Arctic region its unique character, link the Arctic to the larger global climate system, and promote understanding the rapid changes occurring in the Arctic. Prereq., GEOG 1001. GEOG 4271 and 5271 are the same course.

GEOG-4292 (3) Migration, Immigrant Adaptation, and Development

Examines historical and current patterns of migration with an emphasis in international movement. Looks at leading migration theories related to both origin- and destination-based explanations while critically looking at the role of development as a potential cause and consequence of population movement. Finally, covers some aspects of immigrants' social and economic adaptation to their host society. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412. Same as GEOG 5292 and ECON 4292.

GEOG-4303 (4) GIS Programming for Spatial Analysis

Focuses on the extension of geographic information systems (GIS) through programming as well as on the development of algorithms for spatial analysis and information extraction in vector and raster data. Covers concepts, principles and techniques of programming and solving spatial problems in physical and human Geography. Prereq., GEOG 4103/5103. Recommended prereq., GEOG 4203/5203. Same as GEOG 5303.

GEOG-4311 (3) Watershed Biogeochemistry

Emphasizes terrestrial-aquatic linkages in headwater catchments, focusing on hydrologic pathways, isotopic and geochemical tracers,

nutrient cycling, water quality, experimental manipulations, and modeling. Prereq., GEOG 1011 and 3511. Recommended prereq., parametric statistics.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4321 (3-4) Snow Hydrology

Offers a multidisciplinary and quantitative analysis of physico-chemical processes that operate in seasonally snow-covered areas, from the micro- to global-scale: snow accumulation, metamorphism, ablation, chemical properties, biological aspects, electromagnetic properties, remote sensing, Gis, and quantitative methods. Prereqs., GEOG 1001 or 1011, and any statistics course. Same as GEOG 5321.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4331 (3-4) Mountain Climatology

Surveys and analyzes climatic characteristics of mountain environments worldwide. Prereq., GEOG 1001 or ATOC 1050 or 1060. Same as GEOG 5331.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4371 (3) Forest Geography: Principles and Dynamics

Surveys principles of forest geography and ecology. Includes both individual tree responses to environmental factors and species interactions within communities. Emphasizes forest dynamics and their relation to management problems. Prereq., GEOG 1001. Same as GEOG 5371.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4401 (3) Soils Geography

Discusses chemical and physical properties of soils, soil development, distributions, and management relevant to understanding plant-soil relationships in natural and human-altered landscapes. Prereq., GEOG 1011. Recommended prereq., inorganic chemistry. Same as GEOG 5401.

College of Arts & Sciences | Geography | Physical Geography

GEOG-4430 (3) Seminar: Conservation Trends

Provides environmental studies or geography majors with an undergraduate format for interdisciplinary discussion and research into

current and future directions of conservation. May be repeated up to 6 total credit hours. Restricted to junior and senior geography and environmental studies majors.

[College of Arts & Sciences](#) [Geography](#)

GEOG-4501 (3) Water Resources and Water Management of Western United States

Interprets and analyzes hydroclimatic data, surface, and groundwater. Critically evaluates water use, emphasizing problems associated with geographic maldistribution, appropriations, irrigation, industry, pollution, and regional development. Same as GEOG 5501.

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Courses

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Subject **Number**

GEOG

GEOG-4622 (3) City Life

Analyzes social, behavioral, political, and demographic factors that influence development and maintenance of communities in contemporary urban environments, with primary emphasis on U.S. cities. Recommended prereqs., GEOG 1982, 1992, 2002, or 2412. Same as GEOG 5622.

[College of Arts & Sciences](#)
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GEOG-4632 (3) Development Geography

Provides an overview of development policy and practice, surveying foundational works in Development Studies as well as critical interventions. Required for Graduate Certificate in Development Studies. Prereqs. for GEOG 4632 are GEOG 1982, 1992, 2002 or 2412. Recommended prereq., GEOG 3682. GEOG 4632 and 5632 are the same course.

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GEOG-4712 (3) Political Geography

Systematic study of relations between geography and politics, especially as background for better understanding of international affairs. Includes topics such as frontiers and boundaries, power analysis, geopolitics, international political economy, and strategic concepts. Recommended prereqs., GEOG 1982, 1992, 2002, 2412, IAFS 1000, PSCI 2012 or 2223. Restricted to GEOG, IAFS, ENVS, junior/senior majors. Same as GEOG 5712.

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GEOG-4722 (3) Field Methods in Human Geography

Examines research methods associated with field work in human geography. Prepares students for fieldwork by focusing on geographic and interdisciplinary field work techniques; interpretation of field data; and discussion of the politics, ethics and gender, race, class, and cross-cultural issues related to field work. Prereqs., 15 credit hours in human geography. Same as GEOG 5722.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4732 (3) Population Geography

Emphasizes spatial aspects of population characteristics including fertility, mortality, migration, distribution, and composition. Includes both theoretical and empirical considerations, in addition to field work and computer simulations. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Same as GEOG 5732.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4742 (3) Environments and Peoples

Studies the interaction of people and the environment, including human adaptation and modification of environments, cultural interpretation and construction of landscapes, and natural resources and land management. May be taken twice. Topics vary. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4812 (3) Environment and Development in South America

Presents theoretical approaches to the links between environment and development in Latin America and focuses on analytical discussion of contemporary (and controversial) issues in sustainable development in South America. Examines social, ecological, economic, and political forces influencing the use of natural resources. Recommended prereqs., GEOG 1982, 1992, 2002, 3812, 3422, ANTH 3110, or PSCI 3032.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4822 (3) Environment and Development in China

Examines key environmental problems in relation to China's rapid modernization and development. Recommended prereqs., GEOG 1982, 1992, 2002 or HIST 1608.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4832 (3) Geography of Tibet

Rigorously examines contemporary Tibetan society, culture, and nature from a geographical perspective. Uses readings on contemporary Tibet as an entry point into scholarly research about nationalism, representation, diaspora, landscape and place, sustainable development, natural resource management, identity, and environmentalism. Prereqs., GEOG 3822 or other classes on China. Same as GEOG 5832.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4852 (3) Health and Medical Geography

Examines geographical patterns of health and disease with an emphasis on global health issues. Focuses on three major approaches to medical geographic research: ecological approaches, which systematically analyze relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches, which employ maps and spatial analysis to identify patterns of health and disease. Recommended prereqs., GEOG 1001 or 1011, and GEOG 1992, 2002 or 2412. Restricted to juniors/seniors. GEOG 4852 and 5852 are the same course.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4892 (3) Geography of Western Europe

Provides a regional survey of cultural, political, economic, social, and physical geography of Western Europe, emphasizing the distinctive character and problems of each major area and the relationship of the region to the world. Recommended prereqs., GEOG 1982, 1992, 2002 or 2412.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-4990 (3) Senior Thesis

Offers thesis research under faculty supervision. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Geography (GEOG) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences | Geography

GEOG-5003 (4) Elements of Geographic Information Systems

Discusses incorporating GIS methods into graduate thesis or dissertation research. Reviews basic mapping concepts (scale and projections), acquiring different types of spatial data (raster and vector), building an error-free database, making simple queries, overlays, charts, and maps. Intended for students who want to learn GIS but lack background skills in computing or cartography. Recommended prereq., some experience with Mac or Windows. Restricted to graduate students.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5023 (4) Introduction to Quantitative Methods in Geography

Restricted to graduate students. Same as GEOG 4023.

College of Arts & Sciences Geography Techniques (Skills)

GEOG-5043 (4) Cartography 2: Interactive and Multimedia Mapping

Restricted to graduate students. Same as GEOG 4043. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography Techniques (Skills)

GEOG-5093 (4) Remote Sensing of the Environment

Restricted to graduate students. Same as GEOG 4093 and GEOL 5093. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography Techniques (Skills)

GEOG-5100 (1-4) Special Topics: Geography

Covers various topics outside of the normal curriculum; offered intermittently depending on student demand and availability of faculty.

May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography

GEOG-5103 (4) Geographic Information Systems

Prereqs., introductory course in statistics and instructor consent. Restricted to graduate students. Same as GEOG 4103. Prerequisites:

Restricted to Graduate Students only.

College of Arts & Sciences Geography Techniques (Skills)

GEOG-5113 (3) Seminar: Geographic Information Systems

Focuses on the current research topics in geographical information systems and selected areas of application. Includes major journal articles related to each topic. Students complete and present a seminar paper. Prereq., GEOG 4103, 5103, or instructor consent.

Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography Techniques (Skills)

GEOG-5152 (3) History and Theory of Geography

History of ideas and institutions that have shaped contemporary geographic inquiry. Examines the evolving relations among human geography, physical geography, environment-society relations, and geographic information processing. Designed to situate graduate student research within major subfields and intellectual currents of geography. Restricted to graduate students. Prerequisites: Restricted to Geography (GEOG) graduate students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5161 (3) Research Design in Geography

The human section reads and discusses contemporary research philosophies and methodologies in human geography. Practices the development of research proposals and presentation of research ideas and results. The physical section reads and discusses contemporary research philosophies and methodologies in physical geography (climatology, geomorphology, biogeography, and soils geography). Practices the development of research proposals and presentation of research ideas. Restricted to geography graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5203 (4) Geographic Information Science: Modeling Applications

Prereq., GEOG 4103/5103 or instructor consent. Restricted to graduate students. Recommended prereq., working knowledge of Gis software. Same as GEOG 4203. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Techniques (Skills)

GEOG-5211 (3) Seminar: Physical Climatology

Involves a research seminar concerned with problems of mass and energy exchange in the Earth-atmosphere system. Selects topics from such areas as air quality, bioclimatology, hydrology, climate change, and the climates of urban, agricultural, and natural environments. Restricted to graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5221 (3) Synoptic and Dynamic Climatology

Examines global climates from the standpoint of synoptic and dynamic climatology. Prereqs., GEOG 3201 or equivalent, 3000-level course in climate/atmospheric sciences, and instructor consent. Restricted to graduate students.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5241 (1-3) Topics in Physical Geography

Presents recent research topics that vary from year to year. Consult the online Schedule Planner for specific topics. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

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GEOG

GEOG-5251 (4) Fluvial Geomorphology

Restricted to graduate students. Same as GEOG 4251.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

GEOG-5271 (3) The Arctic Climate System

Understanding the climate of the Arctic requires a synthetic, system oriented approach. The course focuses on the intimate linkages between the atmosphere, ocean and land that give the Arctic region its unique character, link the Arctic to the larger global climate system, and promote understanding the rapid changes occurring in the Arctic. Prereq., GEOG 1001. GEOG 4271 and 5271 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

GEOG-5292 (3) Migration, Immigrant Adaptation, and Development

Restricted to graduate students. Same as GEOG 4292 and ECON 4292. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Geography](#) [Human and Cultural Geography](#)

GEOG-5303 (4) GIS Programming for Spatial Analysis

Same as GEOG 4303.

[College of Arts & Sciences](#) [Geography](#) [Techniques \(Skills\)](#)

GEOG-5321 (3-4) Snow Hydrology

Restricted to graduate students. Same as GEOG 4321.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5331 (3-4) Mountain Climatology

Restricted to graduate students. Same as GEOG 4331.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5371 (3) Forest Geography: Principles and Dynamics

Restricted to graduate students. Same as GEOG 4371. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5391 (3) Seminar: Biogeography

Considers in detail current research themes in biogeography. Includes intensive reading of current research literature and preparation of research papers. Restricted to graduate students. Topics vary; may be taken twice.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5401 (3) Soils Geography

Restricted to graduate students. Same as GEOG 4401.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5501 (3) Water Resources and Water Management of Western United States

Restricted to graduate students. Same as GEOG 4501.

College of Arts & Sciences | Geography | Physical Geography

GEOG-5622 (3) City Life

Restricted to graduate students. Same as GEOG 4622.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5632 (3) Development Geography

Provides an overview of development policy and practice, surveying foundational works in Development Studies as well as critical interventions. Required for Graduate Certificate in Development Studies. Prereqs. for GEOG 4632 are GEOG 1982, 1992, 2002 or 2412. Recommended prereq., GEOG 3682. GEOG 4632 and 5632 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5642 (3) Seminar: Urban Geography

Restricted to graduate students. Surveys current research topics in urban geography. Emphasizes definition of possible student thesis topics.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5712 (3) Political Geography

Restricted to graduate students. Same as GEOG 4712. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5722 (3) Field Methods in Human Geography

Restricted to graduate students. Same as GEOG 4722.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5732 (3) Population Geography

Restricted to graduate students. Same as GEOG 4732. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5762 (3) Sustainable Development: Theory and Classic Issues

Provides an assessment of sustainable development primarily as it relates to the Third World. Follows a sequence from development theory through facts, approaches, and goals. Investigates specific topical problems and closes with analyses of case studies. Restricted to graduate students.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5772 (3) Sustainable Development: Institutions and Policy

Investigates the links between social theory, development practice, and policy. Restricted to graduate students.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5782 (3) Sustainable Development: Critique

Investigates historical and contemporary theories and critiques of development and their implications for geographic theory and method. Focuses on the role of representation in evaluating case studies and examining the potential for a sustainable development. Prereq., graduate standing. Recommended prereq., GEOG 5762.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5832 (3) Geography of Tibet

Same as GEOG 4832.

College of Arts & Sciences | Geography | Human and Cultural Geography

GEOG-5840 (1-3) Graduate Independent Study

Offers independent research for master's students only. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Geography

GEOG-5852 (3) Health and Medical Geography

Examines geographical patterns of health and disease with an emphasis on global health issues. Focuses on three major approaches to medical geographic research: ecological approaches, which systematically analyze relationships between people and their environments; social approaches, including political economy and socio-behavioral approaches; and spatial approaches, which employ maps and

spatial analysis to identify patterns of health and disease. Recommended prereqs., GEOG 1001 or 1011, and GEOG 1992, 2002 or 2412. Restricted to juniors/seniors. GEOG 4852 and 5852 are the same course.

[College of Arts & Sciences](#) [Geography](#) [Human and Cultural Geography](#)

GEOG-5930 (3) Advanced Internship

Provides an academically supervised opportunity for graduate-level geography majors to work in public and private organizations on advanced projects related to geographic theory and their career goals. May be repeated up to 7 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Geography](#)

GEOG-5961 (3) Theories of Climate and Climate Variability

Critically reviews current theories of climatic variability based on analysis of the different physical processes affecting climate. Restricted to graduate students. Same as ATOC 5960.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

GEOG-6180 (1-3) Seminar: Geographic Problems

Applies research methods to selected problems. Topics vary with instructor. Restricted to graduate students. May be repeated up to 7 total credit hours.

[College of Arts & Sciences](#) [Geography](#)

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GEOG

[GEOG-6211 \(1-3\) Readings in Climatology](#)

Discusses selected topics in current climatological literature. Specific themes vary. Restricted to graduate students. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Geography](#) [Physical Geography](#)

[GEOG-6402 \(3\) Seminar: Comparative Environmental Studies](#)

Critically examines cross-cultural experience with adjustments to natural hazards and political management of resource exploitation. Restricted to graduate students. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Geography](#) [Human and Cultural Geography](#)

[GEOG-6443 \(2\) Remote Sensing Field Methods](#)

Theory and practical field measurements for validation of airborne and spaceborne spectral image acquisition. Emphasizes radiative scattering properties of soil, vegetation, cryosphere, and atmosphere. Also focuses on characterization and calibration of instrumentation to measure these properties. Restricted to graduate students. Prereqs., GEOL/GEOG 4093/5093. Recommended prereq., GEOL 5240. Same as EBIO 6440.

[College of Arts & Sciences](#) [Geography](#) [Techniques \(Skills\)](#)

[GEOG-6712 \(3\) Seminar: Political Geography](#)

Considers in detail history and methodology of the field, including an analysis of selected systematic topics such as frontiers and boundaries, international rivers, conflicting claims to territory, and electoral geography. Restricted to graduate students. May be repeated

up to 7 total credit hours.

College of Arts & Sciences Geography Human and Cultural Geography

GEOG-6732 (3) Formal Population Geography: Analysis and Forecasting

An in-depth introduction to formal Demography. In addition to learning the basic demographic tools used nowadays in fertility, marriage, mortality, migration, and forecasting/projections, it also looks at some potential links between formal and statistical demographic work that would enable the student to apply some of the methods learnt in an econometric or multivariate setting. Prereqs., GEOG 4023/5023 or equivalent. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography Human and Cultural Geography

GEOG-6742 (3) Seminar: Cultural Geography

Explores various geographic topics emphasizing the concept of culture. Emergence of several points of view in the development of cultural geography. Restricted to graduate students. May be repeated up to 7 total credit hours.

College of Arts & Sciences Geography Human and Cultural Geography

GEOG-6940 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography

GEOG-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography

GEOG-7840 (1-3) Graduate Independent Study

Offers independent research for doctoral students only. Restricted to graduate students. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geography

GEOG-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

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GEOL

GEOL-1010 (3) Introduction to Geology

Introductory geology for majors and nonmajors. Studies Earth, its materials, its characteristics, its dynamic processes, and how it relates to people. Separate lab (GEOL 1030) is optional. Approved for GT-SC1. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)

[Geological Sciences](#)

GEOL-1020 (3) Introduction to Earth History

Examines how Earth's interior and surface, the atmosphere and climate, the oceans, and life interact and have changed over the immensity of geologic time. For majors and non-majors. Separate lab (GEOL 1030) is optional. Prereq., GEOL 1010. Credit not granted for this course and GEOL 1040. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)

[Geological Sciences](#)

GEOL-1030 (1) Introduction to Geology Laboratory 1

Features field trips to local points of geologic interest. Studies rocks and topographic and geologic maps. Prior or current registration in 1000-level geology recommended. Approved for GT-SC1. Meets MAPS requirements for natural science lab, if taken with GEOL 1010. Approved for arts and sciences core curriculum: natural science. Formerly GEOL 1080.

[College of Arts & Sciences](#)

[Geological Sciences](#)

GEOL-1040 (3) Geology of Colorado

Reviews the geologic evolution and history of Colorado. It first develops the basic concepts needed to interpret the geology, and then systematically shows how the state evolved through geologic time. The course is designed for those who enjoy understanding the beauty and splendor of the state. Prereq., GEOL 1010. Credit not granted for this course and GEOL 1020. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-1060 (3) Global Change---An Earth Science Perspective

Focuses on evidence for planetary warming, climate change, glacier and ice-sheet melting, and sea level rise both now and in the recent past. Attempts to develop understanding of the interactions within the coupled Earth system that regulate such changes. Utilizes examples from the geological and instrumental records, and evaluates the global warming forecast. Prereq., GEOL 1010. Meets MAPS requirement for natural science: nonlab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-2001 (4) Planet Earth

Explores the dynamics of planet Earth with particular emphasis on the factors that make the planet habitable. Includes examination of heat balance, hydrology, geomorphology, biogeochemistry and climate history through both lecture and lab-based activities. The course is required for the Environmental Geoscience track within the Geology major and will introduce students to the major concepts in contemporary Earth system science. Prereqs., GEOL 1010, 2100 or ENVS 1000 or instructor consent required.

College of Arts & Sciences Geological Sciences

GEOL-2040 (3) The Search for Life in the Universe

Introduces the scientific basis for the possible existence of life elsewhere in the universe. Includes origin and evolution of life on Earth and the search for evidence of life in our solar system, especially Mars and Jupiter's moon Europa. Discusses the conditions necessary for life and whether they might arise on planets around other stars. Same as ASTR 2040. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-2100 (3) Environmental Geology

Introduces the influences of geologic processes on human lives and the changes human actions cause in geologic systems. Uses examples and case studies from Colorado and the West. Approved for the arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-2700 (2) Introduction to Field Geology

Introduces basic field techniques necessary to collect geologic data and samples, and necessary to map geologic units. Prereqs., GEOL 1030 and either GEOL 1010 and 1020; or GEOL 1010 and 1040; or GEOL 1010 and 1060; or GEOG 1001 and 1011.

College of Arts & Sciences Geological Sciences

GEOL-3010 (3) Introduction to Mineralogy

Two lects. and one lab per week. Origin, occurrence, identification, classification, and uses of minerals. Applications of mineralogy to economic geology and petrology are emphasized. Prereq., Chem 1111 and Math 1300.

College of Arts & Sciences Geological Sciences

GEOL-3020 (3) Petrology

Field relations, petrography, petrology, chemistry, and origins of igneous and metamorphic rocks are studied by means of lectures, reading, and lab and field experience. Labs include instruction in the fundamentals of optical petrography and the study of rocks in thin section. Prereq., GEOL 3010.

College of Arts & Sciences Geological Sciences

GEOL-3023 (4) Statistics for Geography

Introduces parametric and distribution-free statistics, emphasizing applications to earth science problems. Same as GEOG 3023.

College of Arts & Sciences Geological Sciences

GEOL-3030 (3) Introduction to Hydrogeology

Introduces groundwater flow concepts, hydrologic cycle, physical and chemical properties, flow net, hydraulic potential, geologic controls on heterogeneity and anisotropy, aquifers and aquitards in a geologic system, saturated and unsaturated flow, flow to a well, pumping tests, and role of groundwater in geologic processes. Prereqs., GEOL 1010 or 2001, and MATH 1300; or instructor consent.

College of Arts & Sciences Geological Sciences

GEOL-3040 (3) Global Change: The Recent Geological Record

Geological records in lakes, oceans, deserts, and around glaciers indicate the significant changes in the global systems that have taken place over the last few hundred or thousand years. Explores the timing and nature of these changes. Prereqs., any two-course sequence of natural science core courses. Credit not granted for this course and GEOL 4070. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-3050 (2) GIS for Geologists

Introduction to Geographic Information Systems (GIS) techniques focused on geological applications. GIS analyzing, mapping, and GPS use are covered. Basic computer skills are a plus before entering the class.

College of Arts & Sciences Geological Sciences

GEOL-3070 (3) Introduction to Oceanography

Investigates the broad-scale features and dynamics of Earth's oceans. The course is roughly divided amongst the four major, interrelated disciplines of oceanography: marine geology, marine chemistry, physical oceanography (i.e. circulation), and marine biology. Specific topics include seafloor spreading, marine sediments, salinity, biogeochemical cycles, currents, waves, tides, primary production, marine ecology, marine resources, global warming, and much more. Prereq., any two-course sequence of natural science courses. Same as ATOC 3070. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-3090 (3) Developing Scientific Writing Skills

Focuses on the development of scientific writing skills. Enhances student ability to write professionally, revise text, and review the work of others. Writing assignments integrate the subject matter of different topics in earth science. Prereq., a lower division writing course and one of the following: GEOL 2001, 2700, 3010, 3030, 3120, 3230, 3320, 3430, or 3820. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Geological Sciences

GEOL-3120 (4) Structural Geology

Geometrical techniques for describing and illustrating geological structures. Major topics include graphic methods and geometry of fractures and folds. Prereqs., any 1000-level sequence in geological sciences.

College of Arts & Sciences Geological Sciences

GEOL-3130 (3) Global Warming: Understanding the Forecast

Uses the example of man-made climate change to develop an analytical understanding of the Earth system (solid, fluid, and living) that can be used to interpret the complex and uncertain forecast. Emphasis is given to the concepts of forcing, feedback and response in order to examine natural vs. man-made environmental changes and climate change mitigation strategies.

College of Arts & Sciences Geological Sciences

GEOL-3230 (3) Earth Materials

Provides introduction to the classification, composition and properties of Earth rocks and minerals, with emphasis on near surface Earth materials. Two lectures and one lab per week. Labs include instruction on optical mineralogy and on the study of rocks in thin section. Prereqs., CHEM 1111 and MATH 1300.

College of Arts & Sciences Geological Sciences

GEOL-3300 (3) Extraterrestrial Life

Discusses the scientific basis for the possible existence of extraterrestrial life. Includes origin and evolution of life on Earth; possibility of life elsewhere in the solar system, including Mars; and the possibility of life on planets around other stars. Prereq., one-year sequence in a natural science. Same as ASTR 3300.

College of Arts & Sciences Geological Sciences

GEOL-3320 (3) Introduction to Geochemistry

Introduces chemical principles as applied to geologic processes. Includes an introductory discussion of mineral and rock chemistry, aqueous geochemistry, and organic geochemistry. Prereqs., CHEM 1111 , CHEM 1133, and MATH 1300.

College of Arts & Sciences Geological Sciences

GEOL-3410 (3) Paleobiology

Surveys morphology, ecology, and evolution of ancient animal and plant life and their interactions on Earth. Fossils used to solve geological and biological problems. Prereqs., any 1000-level sequence in geological science or environmental, population, and organismic biology or instructor consent.

College of Arts & Sciences Geological Sciences

GEOL-3430 (4) Sedimentology and Stratigraphy

Introduces the study of sedimentary rocks emphasizing their origin, characteristics, and interpretation; and the principles and techniques for establishing the temporal order and spatial distribution of sedimentary layers. Prereq., GEOL 1010 and GEOL 1020 or 1040, and GEOL 1030, and GEOL 2700 or 3010, or instructor consent.

[College of Arts & Sciences](#) [Geological Sciences](#)

GEOL-3500 (3) Earth Resources and the Environment

Examines Earth's most important natural resources and their impact on society and the environment. Addresses the geology, occurrence, production, and use of petroleum, coal, mineral, and water resources. Future world energy supply and demand, conservation, and the transition from fossil fuels to non-polluting renewable resources are discussed. Prereq., GEOL 1010 or 1060. Approved for arts and sciences core curriculum: natural science.

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GEOL

[GEOL-3520 \(3\) Energy & Climate Change: An Interdisciplinary Approach](#)

Examines sources of energy and other resources in light of their availability, use, environmental impact, as well as their impact on policy, economics and values. As fossil fuels are the dominant energy source today, particular emphasis is placed on climate impacts and the carbon cycle. All material is assessed through the lenses of the physical sciences, policy, ethics and economics. Prereq., a two-course sequence in any natural science. May be repeated up to 6 total credit hours. Same as ENV5 3520. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)

[Geological Sciences](#)

[GEOL-3540 \(3\) Introduction to Petroleum Geology](#)

Discusses the origin and distribution of conventional and unconventional petroleum resources, source rocks, types of traps and seals, reservoir rock properties, exploration methods (seismic data analysis and interpretation, formation evaluation, subsurface mapping), reservoir characterization and modeling, reserves calculations. Prereqs., GEOL 1010 and MATH 1300 or APPM 1350, or instructor consent.

[College of Arts & Sciences](#)

[Geological Sciences](#)

[GEOL-3720 \(3\) Evolution of Life: The Geological Record](#)

Discusses the evolution of life on Earth, beginning with the earliest origins and surveying the major steps that led to the rise of higher plants and animals. Covers modern ideas on the causes of periodic mass extinctions in both the marine and terrestrial realms. Emphasizes geologic evidence for the pathways of evolution, using examples from the ordinary to the bizarre. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#)

[Geological Sciences](#)

GEOL-3820 (3) The Fluid Earth

Examines the myriad forms of fluid behavior found on Earth, from the atmosphere to the inner core. Explores how basic principles of fluid physics may be used to understand a broad range of earth processes, including mantle convection, atmosphere and ocean dynamics, stream flow, lava spreading, and glacier motion, among others. Covers fundamental fluid concepts such as viscosity, pressure, convection, friction, and free-surface flow. Prereqs., MATH 1300, or APPM 1340 and 1345, or APPM 1350, or equivalent. Recommended prereq., GEOL 1010 or equivalent.

College of Arts & Sciences Geological Sciences

GEOL-3930 (1-6) Internship

Offers an academically supervised opportunity for geological sciences majors to work with public or private organizations. Projects are usually associated with students' career goals; each project has an academic emphasis. Prereq., junior standing and completion, with a B or better, of at least two courses for geology majors.

College of Arts & Sciences Geological Sciences

GEOL-3950 (3) Natural Catastrophes and Geologic Hazards

Surveys historic and prehistoric natural disasters, their cause, and potential for recurrence. Meteorite impact, earthquakes, volcanic eruptions, tsunamis, landslides, floods, magnetic reversals, and major extinction events. Course formerly numbered as GEOL 4950. Prereq., one year science. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-4060 (4) Oceanography

Examines the ocean as a system influencing the Earth's surficial processes and climate. Composition and properties of seawater, ocean circulation, waves, tides, coastal-, shallow-, and deep-water processes, biogeochemical cycles, deep sea sediments. Laboratory emphasizes the use of oceanographic data. Prereq., one semester chemistry, physics, or geology. Same as GEOL 5060.

College of Arts & Sciences Geological Sciences

GEOL-4070 (3) Paleoclimatology

Covers the primary forcings and feedbacks that determine Earth's energy balance and the resultant climate system on decadal to millennial time scales. Covers ocean/atmosphere circulation, the role of ice sheets in the climate system, monsoons, Holocene climate change and 20th Century warming. Includes coverage of the proxies available to reconstruct climates of the past and the archives that contain these proxies. Recommended for natural science majors only and recommended prerequisite of ENV5 or GEOL introduction sequence. Credit not granted for this course and GEOL 3040.

College of Arts & Sciences Geological Sciences

GEOL-4093 (4) Remote Sensing of the Environment

Covers acquisition and interpretation of environmental data by remote sensing. Discusses theory and sensors, as well as manual and computerized interpretation methods. Stresses infrared and microwave portions of the spectrum. Same as GEOL 5093 and GEOG 4093.

College of Arts & Sciences Geological Sciences

GEOL-4130 (3) Principles of Geophysics

Students are introduced to fundamental geophysics including seismology, geomagnetism, gravity, radiometric dating, and heat flow with applications to plate tectonics and exploration of the subsurface. Prereqs., MATH 1300 and PHYS 1110 and any 1000-level sequence in geological sciences; GEOL 3120 recommended.

College of Arts & Sciences Geological Sciences

GEOL-4160 (3) Introduction to Biogeochemistry

Covers fundamentals of biogeochemical cycling, emphasizing water, carbon, and nutrient dynamics in terrestrial ecosystems; chemical interactions of atmosphere, biosphere, lithosphere, and hydrosphere; and natural and human-managed environments. Prereqs., GEOL 3320 or EBIO 3270, and CHEM 1011 or higher. Same as ENVS 4160 and EBIO 4160.

College of Arts & Sciences Geological Sciences

GEOL-4241 (4) Principles of Geomorphology

Studies weathering, mass-wasting, fluvial, wind, and marine processes and the resulting landforms. Prereq., GEOG 1011 or any 1000-level sequence in geological sciences. Same as GEOG 4241. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Geological Sciences

GEOL-4270 (3) Marine Chemistry and Geochemistry

Examines the chemical, biological, geological, and physical processes affecting (and affected by) the chemistry of the oceans. Topics include: chemical separation in seawater; the marine carbon cycle and its long-term control on atmospheric CO₂; the large-scale interdependence of nutrient distributions and biological productivity, chemical tracers of ocean circulation; and the chemistry of marine sediments, including early diagenesis. Prereq., CHEM 1113/1114 and intro geology and/or oceanography or equivalent. Restricted to juniors/seniors.

GEOL-4330 (3) Cosmochemistry

Investigates chemical and isotopic data to understand the composition of the solar system: emphasis on the physical conditions in various objects, time scales for change, chemical and nuclear processes leading to change, observational constraints, and various models that attempt to describe the chemical state and history of cosmological objects in general and the early solar system in particular. Prereq., upper-div undergrad or grad standing in physical science. Recommended prereq., upper-div undergrad Chem, Phys, or Math. Same as GEOL 5330 and ASTR 4330.

GEOL-4474 (4) Vertebrate Paleontology

Discusses the history and evolution of the vertebrates, including the phylogenetic relationships and evolutionary patterns of the major groups. Lab focuses on comparative vertebrate osteology and fossil representation of major groups. Prereqs., GEOL 1010, 1020, and 3410, or instructor consent. Restricted to juniors and seniors. Same as GEOL 5474. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

GEOL-4500 (3) Critical Thinking in the Earth Sciences

Deals with controversies within the broad realm of geological sciences, including planetary geology, evolution, paleobiology, global change, environmental issues, plate tectonics, resources, other societal problems, or geologic thought in general. Students are provided the opportunity to analyze and debate scientific issues in the earth sciences. May be repeated up to 6 total credit hours. Prereq., any 1000-level geological science sequence.

GEOL-4550 (3) Petroleum Reservoir Characterization and Modeling

Introduces concepts and methods of petroleum reservoir analysis and 3-D reservoir modeling using subsurface data (cores, well logs, 3-D seismic) and outcrop analogs. Examines petroleum system, petrophysics (lithology, porosity, permeability, capillary pressure, flow units), and sequence-stratigraphic, facies, and structural controls on reservoir properties, heterogeneity, and recovery efficiency. Deterministic and stochastic reservoir modeling methods are addressed. Prereqs., GEOL 1010, 1020, and 3430 or instructor consent. Restricted to juniors/seniors. Same as GEOL 5550. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

GEOL-4670 (3) Isotope Geology

Introduces principles of stable and radiogenic isotope systematics in inorganic and organic geochemistry. Emphasizes application of isotope data to problems in igneous, metamorphic, and sedimentary petrology, geobiochemistry, and petroleum genesis. Prereqs., CHEM 1131, MATH 1300, and GEOL 3020. Same as GEOL 5670.

College of Arts & Sciences Geological Sciences

GEOL-4700 (1-4) Special Geological Topics

Studies in selected geological subjects of special current interest (for undergraduates). May be repeated up to 9 total credit hours within a term. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Geological Sciences

GEOL-4711 (2) Igneous and Metamorphic Field Geology

Applies field techniques to interpretation of igneous and metamorphic rocks. Field exercises and lectures focus on collecting data required to map igneous and metamorphic rock units. Prereqs., GEOL 2700 or 2001 and GEOL 3020.

College of Arts & Sciences Geological Sciences

GEOL-4712 (2) Structural Field Geology

Methods of field study of structure of rocks, including observations, data collection, and interpretation to understand geometry of deformation and causative processes and kinematics. Field projects are mapped using different scales, air photos, topographic maps, and compass and tape. Prereqs., GEOL 2700 or 2001, and GEOL 3120.

College of Arts & Sciences Geological Sciences

GEOL-4714 (2) Field Geophysics

Applies geophysical field techniques and data interpretation to studying geological and engineering problems. Fieldwork includes seismic, gravity, magnetic, and electrical measurements. Prereqs., GEOL 2700 or 2001, and MATH 1300 and PHYS 1110, or instructor consent.

College of Arts & Sciences Geological Sciences

GEOL-4715 (2) Field Techniques in Hydrogeology

Introduces various field techniques and data analysis methods in hydrogeologic studies for students in geology, environmental studies, geography, and civil engineering. Exercises include mapping ground water levels, conducting slug and pumping tests, measuring stream flows, interpreting aquifer parameters from geophysical measurements, and using field data for water budget analysis. Prereq., GEOL 2001 or 2700.

GEOL-4716 (2) Environmental Field Geochemistry

Develops basic field skills in the most commonly performed tasks required for the environmental characterization of solid and aqueous wastes. Media of study include soils, stream sediments, surface waters, ground waters, and atmospheric particulates. Prereqs., GEOL 2700 or 2001, and CHEM 1011/1031, or CHEM 1113/1133, and GEOL 3320 or instructor consent.

GEOL-4717 (2) Field Seminar in Geology and Tectonics

Studies geologic features in and around Colorado to gain an overview of the geologic and tectonic evolution of the western U.S. Prereqs., GEOL 2700 or 2001, and one or more of GEOL 3120, 3320, or 3430.



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GEOL

[GEOL-4721 \(2\) Field Methods in Active Tectonics](#)

Analysis of active geologic structures, including strike slip fault systems, secondary structures in stepovers and related eruptive centers. Includes the use of digital imagery, elevation models, offset geomorphic features and Quaternary deposits to determine local deformation rates and their relation to plate motions. Prereqs., GEOL 2700 or 2001 and GEOL 3120. Recommended prereq., GEOL 4712.

[College of Arts & Sciences](#) [Geological Sciences](#)

[GEOL-4840 \(1-3\) Independent Study in Geology](#)

Time and credit to be arranged. Numbered GEOL 4840 through GEOL 4849. For advanced undergraduates who have high scholastic standing. Open only upon consultation with department advisor. May be repeated up to 7 total credit hours.

[College of Arts & Sciences](#) [Geological Sciences](#)

[GEOL-4851 \(1-3\) Independent Study in Geoscience Education](#)

May be repeated up to 3 credit hours.

[College of Arts & Sciences](#) [Geological Sciences](#)

[GEOL-4960 \(1\) Writing in Geosciences](#)

Emphasizes strategies of literature research and scientific writing in the geosciences. Includes small writing assignments and a larger library research paper. Prereq., 15 hours of upper-division course work in geological sciences.

College of Arts & Sciences Geological Sciences

GEOL-4990 (1-3) Honors Thesis

Supervised project involving original research in any area of the geological sciences. The thesis is submitted to the Honors Program of the College of Arts and Sciences and is orally defended. The candidate must have a cumulative GPA of 3.30 or better and must be accepted by the departmental honors committee.

College of Arts & Sciences Geological Sciences

GEOL-5060 (4) Oceanography

Same as GEOL 4060. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5080 (3) Advanced Hydrogeology and Modeling Concepts

Introduces advanced groundwater flow and modeling concepts, equations for steady state and transient flow, saturated and unsaturated flow, finite difference method, application of modeling in geologic processes, radial flow and aquifer parameters, infiltration and groundwater recharge, model calibration, verification, and prediction. Prereqs., MATH 2300, Fortran, or instructor consent.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5093 (4) Remote Sensing of the Environment

Same as GEOL 4093 and GEOG 5093. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5110 (3) Geomechanics

Introduces fundamental physical processes important to the transport of heat and mass in the Earth and on Earth's surface. Provides practice with quantitative treatment of geological problems. Solutions for each problem are derived from first principles, including conservation and flux laws. Emphasizes heat conduction and viscous fluid flow. Prereq., calculus. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5270 (3) Marine Chemistry and Geochemistry

Same as GEOL 4270.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5280 (3) Aqueous and Environmental Geochemistry

Explores the fundamentals of low-temperature geochemistry to investigate element speciation and chemical behavior in waters, soils and sediments. Topics include water-rock interaction and weathering, mineral dissolution and precipitation reactions, aqueous complexation, mineral surface chemistry, kinetics, element cycles, and redox biogeochemistry. Includes exposure to spectroscopic tools, computer simulations, and microbial geochemistry. Prereq., GEOL 3320 or 1 year of college chemistry or instructor consent.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5305 (3) Global Biogeochemical Cycles

Focuses on the cycling of elements at the global scale with a particular emphasis on human modification of biogeochemical cycles. Major biogeochemical cycles, their past dynamics, present changes, and potential future scenarios will be addressed. Ecosystem to global-scale model of the earth system will be discussed along with global scale measurements of element fluxes from satellites, aircraft, and measurement networks. Prereq., general chemistry, some organic chemistry. Same as ENVS 5840. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5330 (3) Cosmochemistry

Same as GEOL 4330 and ASTR 5330.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5420 (3) Quaternary Dating Methods

In-depth survey of standard and experimental dating methods that provide absolute ages for events of the last two million years of Earth history. Includes theory and application of radiocarbon, uranium series, amino acid, thermo-luminescence, fission track, potassium/argon, hydration, light stable isotopes, and other radioactive techniques. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5430 (3) Paleoceanography and Paleoclimatology

Examines scientific tools, data, and theories related to the dramatically varied past climate of Earth. Focus will be on marine records of climate change and ocean circulation, but ice core and continental archives will also be discussed. Course will cover the Cretaceous

Period to the present, with particular emphasis on the past 150,000 years (the last ice age cycle). Prereq., intro geology or equivalent. Recommended prereq., intro oceanography or atmospheric science. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5474 (4) Vertebrate Paleontology

Same as GEOL 4474 and MUSM 5474.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5550 (3) Petroleum Reservoir Characterization and Modeling

Restricted to graduate students. Same as GEOL 4550.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5670 (3) Isotope Geology

Same as GEOL 4670.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5690 (3) Tectonic History of the Western United States

Provides students with the practical tools needed to make tectonic interpretations through study of the geologic history of the western United States and the geodynamic models used in interpreting that history. Paleomagnetism, geobarometry, geothermometry, geodynamic modeling, and elements of structural geology and stratigraphy are topics considered in this class. Prereqs., GEOL 3120 and PHYS 1110.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5700 (1-4) Geological Topics Seminar

Seminar studies in geological subjects of special current interest are offered primarily for graduate students, as departmental staff and facilities permit. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course



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GEOL

[GEOL-5717 \(1-3\) Field Seminar in Geology and Tectonics](#)

Studies geologic features in and around Colorado to gain an overview of the geologic and tectonic evolution of the western U.S. Prereq., GEOL 2700 or 2001 and one or more of GEOL 3120, 3320 or 3430 or equivalent. May be repeated up to 6 total credit hours.

Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Geological Sciences](#) [Graduate Course](#)

[GEOL-5800 \(3\) Planetary Surfaces and Interiors](#)

Examines processes operating on the surfaces of solid planets and in their interiors. Emphasizes spacecraft observations, their interpretation, the relationship to similar processes on Earth, the relationship between planetary surfaces and interiors, and the integrated geologic histories of the terrestrial planets and satellites. Prereq., graduate standing in physical sciences or instructor consent. Same as ASTR 5800. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Geological Sciences](#) [Graduate Course](#)

[GEOL-5810 \(3\) Planetary Atmospheres](#)

Covers the structure, composition, and dynamics of planetary atmospheres. Includes the origin of planetary atmospheres, chemistry and cloud physics, greenhouse effects, climate, and the evolution of planetary atmospheres---past and future. Same as ATOC 5810 and ASTR 5810.

[College of Arts & Sciences](#) [Geological Sciences](#) [Graduate Course](#)

[GEOL-5820 \(3\) Origin and Evolution of Planetary Systems](#)

Considers the origin and evolution of planetary systems, including protoplanetary disks, condensation in the solar nebula, composition of meteorites, planetary accretion, comets, asteroids, planetary rings, and extrasolar planets. Applies celestial mechanics to the dynamical evolution of solar system bodies. Prereq., graduate standing in physical sciences or instructor consent. Same as ASTR 5820 and ATOC 5820. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5830 (3) Topics in Planetary Science

Current topics in planetary science, based on recent discoveries, spacecraft observations, or other developments. Focuses on a specific topic each time it is offered, such as Mars, Venus, Galilean satellites, exobiology, comets, or extrasolar planets. May be repeated up to 6 total credit hours, provided the topics vary. Prereq., graduate standing in physical sciences or instructor consent. Same as ATOC/ASTR 5830.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5835 (1) Seminar in Planetary Science

Studies current research on a topic in planetary science. Students and faculty give presentations. Subjects may vary each semester. May be repeated up to 4 total credit hours to meet candidacy requirements. Prereq., graduate standing or instructor consent. Same as ATOC 5835 and ASTR 5835. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5840 (1-3) Independent Study-Quaternary Geology

Numbered GEOL 5840 through GEOL 5851. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-5852 (1-3) Independent Study--GIS Applications in Quaternary Geosciences

Leads students through quantitative spatial analysis of environmental and paleoclimatic problems. Each student will develop a project from start to finish, with emphasis on raster GIS for building large empirical databases that bear on process and variability.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6060 (4) Petroleum Geology of Turbidite Systems

Covers the exploration and production aspects of petroleum submarine fans and turbidite systems. A one-week field trip to Arkansas is included. Students are responsible for part of the trip expenses. Prereq., GEOL 6330.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6310 (3) Sedimentary Petrology

Interpretation of depositional and diagenetic history of sedimentary rocks as determined from thin-section studies. Prereqs., GEOL 3010, 3020, and 3430. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6330 (4) Applied Sequence Stratigraphy and Basin Analysis

Develops skills in the stratigraphic interpretation of seismic reflection data, recognition of sequence stratigraphy in well logs and outcrop, and their applications to basin analysis in petroleum exploration. Prereqs., graduate standing, introductory undergraduate physics, and sedimentology/stratigraphy. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6610 (3) Earth and Planetary Physics 1

Offered alternate years. Mechanics of deformable materials, with applications to earthquake processes. Introduces seismic wave theory. Inversion of seismic data for the structure, composition, and state of the interior of Earth. Same as ASTR 6610 and PHYS 6610.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6620 (3) Earth and Planetary Physics 2

Offered alternate years. Space and surface geodetic techniques, as well as potential theory, are covered. Other topics are definition and geophysical interpretation of the geoid and of surface gravity anomalies; isostasy; post-glacial rebound; tides and the rotation of the Earth. Same as ASTR 6620 and PHYS 6620. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6630 (3) Earth and Planetary Physics 3

Offered alternate years. The solar system: theories of its origin, meteorites. Distribution of radioactive materials; age dating. Heat flow through continents and the ocean floor; internal temperature distribution in Earth; mantle convection. Origin of the oceans and atmosphere. Same as ASTR 6630 and PHYS 6630.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6650 (1-3) Seminar in Geophysics

Advanced seminar studies in geophysical subjects for graduate students. Same as ASTR 6650 and PHYS 6650. May be repeated up to 6 total credit hours. Prerequisites: Restricted to undergraduate and graduate Geology or Physics majors only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6670 (2) Geophysical Inverse Theory

Principles of geophysical inverse theory as applied to problems in the Earth sciences, including topography, Earth structure, and earthquake locations. Prereqs., calculus and computer programming (any language). Same as PHYS 6670.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6940 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6950 (1-6) Master's Thesis

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-6960 (3) Plan II Master's Research

College of Arts & Sciences Geological Sciences Graduate Course

GEOL-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Geological Sciences Graduate Course



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GRMN

GRMN-1010 (4) Beginning German 1

For students with no previous training in German. Credit not granted for this course and GRMN 1030.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-1020 (4) Beginning German 2

Prereq., GRMN 1010 (min grade of C-). Credit not granted for this course and GRMN 1030.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-1030 (5) Intensive Beginning German

Covers the same material as GRMN 1010 and GRMN 1020 in one course. Focuses on acquiring ability to understand and speak everyday German; on developing reading and writing skills; and on learning about the cultures of the German-speaking countries. Credit not granted for this course and GRMN 1010 and GRMN 1020.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-1500 (3) German for Reading Knowledge

Designed especially for graduate students. Emphasizes analytical skills for acquiring reading proficiency in specialized and technical German in one's field of research. Recommended for pass/fail registration. Does not satisfy the arts and sciences foreign language requirement. Does not count towards the German major.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-1601 (3) Germany Today

Introduces the culture of contemporary German-speaking central Europe, examining historical processes, social and political patterns, and the intellectual and artistic responses to problems of the 20th and 21st centuries. Taught in English. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

GRMN-1602 (3) Metropolis and Modernity

An interdisciplinary introduction to the modern industrial city in Europe and the USA, with particular attention to the representation of urbanism in the visual arts. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

GRMN-1701 (3) Nature and Environment in German Literature and Thought

Critically examines titles in German literature and thought. Nature and environment are used to explore alienation, artistic inspiration, nihilism, exploitation, sexuality, rural versus urban, meaning of the earth, cultural renewal, identity and gender. This "Green" survey of German classics spans Romanticism's conception of nature as unconscious spirit to the politics and values of contemporary Germany's Green Party. Taught in English. Same as HUMN 1701. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

GRMN-2010 (4) Intermediate German 1

Review and continuation of basic skills begun in the first year: reading, writing, speaking, and oral comprehension. Prereq., GRMN 1020 or 1030 (min grade C-). Approved for GT-AH4. Meets MAPS requirement for foreign language. Satisfies arts and sciences language requirement. Credit not granted for this course and GRMN 2030.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-2020 (4) Intermediate German 2

Prereq., GRMN 2010 (min grade C-). Credit not granted for this course and GRMN 2030.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-2030 (5) Intensive Intermediate German

Covers the same material as GRMN 2010 and GRMN 2020 in one semester. Offers review and continuation of basic skills begun in the first year: reading, writing, speaking and oral comprehensive. Prereq., GRMN 1020 or GRMN 1030 (min grade C-), or instructor consent. Credit not granted for this course and GRMN 2010 and GRMN 2020. Meets MAPS requirement for foreign language. Approved for arts and sciences core curriculum: foreign language.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-2301 (3) Inside Nazi Germany: Politics, Culture, and Everyday Life in the Third Reich

Examines social culture and everyday life in Nazi Germany. Topics include the role of propaganda in the media and entertainment industries, anti-Semitism and suppression of ethnic, social and religious minorities, the role of education and youth organizations, as well as the role of women, the churches, and the effects of a controlled economy before and during World War II. Taught in English. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-2501 (3) 20th-Century German Short Story

Short stories by Thomas Mann, Kafka, Boell, and Grass, such as Death in Venice, Metamorphosis, and Cat and Mouse. Emphasizes literary themes, their traditions, and their cultural significance. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-2502 (3) Representing the Holocaust

Examines how the memory of the Holocaust in Nazi Germany is increasingly determined by the means of its representation, e.g., film, autobiography, poetry, architecture. Taught in English. Same as JWST 2502. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-2503 (3) Fairy Tales of Germany

Explores the origins, cultural significance, stylistic and thematic features of the German fairy tale, with emphasis on the Brothers Grimm; on artistic fairy tales by Goethe, Tieck, Brentano, and others; and, on modern retellings in literature and popular culture. Taught in

English. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-2601 (3) Kafka and the Kafkaesque

Exposes the students to a wide selection of Kafka's literary output and aims to define the meaning of the Kafkaesque, by looking not only for traces of Kafka's influence in the verbal and visual arts, but also for traces left in Kafka's own work by his precursors in the literary tradition. Taught in English. Same as HUMN 2601. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-2603 (3) Moral Dilemmas in Philosophy and Literature

Examines the moral dilemmas that arise when opportunities afforded by basic freedoms or advances in technology clash with the ethical imperatives that issue from the Enlightenment and the social contract. Guiding questions include: When does the quest for knowledge legitimate transgression of prevailing morality? By what standard do we adjudicate the ambitions of the individual when they compete with the interests of the state? Taught in English. Approved for art and sciences core curriculum: ideals and values.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-3010 (3) Advanced German 1

Reviews special grammatical topics, reading, and conversation. Students have the option of taking the internationally recognized exam Zertifikat Deutsch in GRMN 3010. Prereq., four semesters of college German or equivalent. Open to freshmen with instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-3020 (3) Advanced German 2

Expands and refines skills acquired in GRMN 3010. Students acquire a varied, precise, and idiomatically advanced vocabulary; an understanding of different registers, from the casual to the very formal; and an ability to communicate effectively in spoken and written German in a variety of social situations, including professional life. Prereq., GRMN 3010 or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-3030 (3) Business German

Introduces students to the language of German business and economic life. Provides insights into everyday business practices and

institutions, including Germany's position in the European and world markets. Emphasizes acquiring basic business vocabulary and writing business letters and resumes in German. Prepares students for the exam Deutsch fuer den Beruf, a diploma recognized worldwide by business and industry. Prereq., GRMN 2020 or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-3110 (3) German Literature from the Avant-garde to the Postmodern

Examines selected literary texts. Emphasizes longer unedited texts as well as critical skills. May be taken either before or after GRMN 3120. Prereq., GRMN 2020 or equivalent, or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-3120 (3) German Literature from the Enlightenment to Expressionism

Examines selected literary texts of various periods. Emphasizes longer texts and critical skills. May be taken either before or after GRMN 3110. Prereq., GRMN 2020 or equivalent, or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-3130 (3) Issues in German Philosophy and Literature

Examines selected interdisciplinary texts from the German literary and philosophical tradition. Topics address issues central to philosophical inquiry, and may include knowledge and its limits, mind and body, determinism and free will, reason and religious belief, and ethical problems. Prereqs., GRMN 2020 or 2030, or equivalent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-3140 (3) Current Issues in German Literature

Examines issues pervading contemporary German literature, such as concerns of youth, gender, stereotyping as it affects women and men in their relations with one another, loneliness and sexual frustration, work experiences, and other issues. Prereq., ability to read unedited German and to speak German.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-3150 (3) Issues in German Politics and Literature

Examines literary and theoretical texts in German about the relationship between literature and politics. Topics may include history and

revolution, political theater, feminist aesthetics, or terrorism. Readings and discussion in German. Prereqs., GRMN 2020 or GRMN 2030, or equivalent.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-3501 (3) German-Jewish Writers: From the Enlightenment to the Present

Provides insight into the German-Jewish identity through essays, autobiographies, fiction, and journalism from the Enlightenment to the post-Holocaust period. Examines the religious and social conflicts that typify the history of Jewish existence in German-speaking lands during the modern epoch. Taught in English. Same as JWST 3501. Approved for arts and sciences core curriculum: human diversity.

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GRMN

GRMN-3502 (3) Literature in the Age of Goethe

Features the writings of Germany's major literary figures from 1749 to 1832. Special attention is paid to the formation of literary periods, genres, aesthetic, and socio-historical developments contributing to the birth of modernism in German intellectual history and literature. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)

[Germanic & Slavic Languages & Literature](#)

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GRMN-3503 (3) German Film Through World War II

History and theory of Weimar and Nazi film with sociocultural emphasis. Taught in English. Same as FILM 3503.

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GRMN-3504 (3) Topics in German Film

A comparative analysis of key issues in German culture as they are represented in film and other media, e.g., technology, architecture, women, and the Holocaust. May be repeated up to 6 total credit hours when topic varies. Taught in English. Same as FILM 3504.

[College of Arts & Sciences](#)

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GRMN-3505 (3) The Enlightenment: Tolerance and Emancipation

Examines Enlightenment notions of reason, humanity, and social progress. Topics include 18th century views on government, science, education, religion, slavery, and gender roles. Taught in English. Same as HUMN 3505. Approved for arts and sciences core curriculum:

ideals and values.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

GRMN-3513 (3) German Film and Society 1945-1989

Introduces issues in German society through film during the Cold War. Focus on East and West Germany, though some other German language films may be included. Emphasis is on reading films in their social, historical, and political contexts. Taught in English. Same as FILM 3513.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

GRMN-3514 (3) German Film & Society After 1989

Introduces post-1989 German culture through film. The course emphasizes films in their socio-historical contexts and explores developments in German culture during and after the unification. Taught in English. Same as FILM 3514.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

GRMN-3520 (3) Open Topics in the Cultural Context

Examines topics in the cultures of German-speaking central Europe. Contact the departmental office for specific course offerings. May be repeated up to 6 total credit hours when topic varies. Prereq., GRMN 3020 or equivalent, or instructor consent.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-3601 (3) German Women Writers

Explores writing by German/Austrian women from 1945 to the present, with special attention to the representation of the Holocaust, the continuation of avant-garde traditions, innovations in literary form, and feminism. Visual arts, film, and feminist theory will also be considered in their relation to literature. Taught in English. Same as WMST 3601. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

GRMN-3702 (3) Dada and Surrealist Literature

Surveys the major theoretical concepts and literary genres of the Dada and Surrealist movements. Topics include Dada performance and cabaret, the manifesto, montage, the ready made, the Surrealist novel, colonialism and the avant-garde, and literary and philosophical precursors to the avant-garde. Taught in English. Same as HUMN 3702. Approved for arts and sciences core curriculum: literature and

the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-3802 (3) Politics and Culture in Berlin 1900-1933

Examines early 20th century German culture, with emphasis on the Weimar Republic (1918-1933) in light of contemporaneous political discussions. The course presents modern art and literature (Expressionism, Dada, Brecht's epic theater) and architecture and design (Bauhaus, Werkbund) as well as political movements of women, sexual minorities, and Berlin's Jewish communities. Taught in English. GRMN 3802 and HUMN 3802 are the same course. Offered through CU Study Abroad Program. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-3930 (1-6) Internship

Provides an academically supervised opportunity for upper-division students to earn credit while working for public or private organizations. Students apply skills and knowledge earned in the major, and supplement their work experience through directed readings and assignments. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) German Studies (GRMN) majors only.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-4010 (3) Advanced Grammar and Stylistics

Offers a complete final review of German grammar and syntax and its more complex aspects. Prepares students for the Goethe-Zertifikat C1. Prereq., GRMN 3020 or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-4051 (3) Critical Theory of the Frankfurt School

Serves as an introduction to the "Frankfurt School" and Critical Theory with particular emphasis upon rationality, social psychology, cultural criticism, and aesthetics. Through close readings of key texts by members of the school (Horkheimer, Benjamin, Adorno, Habermas) we will work toward a critical understanding of the analytical tools they developed and consider their validity. Taught in

English. GRMN 4051, 5051 and COML 5051 are the same course.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-4251 (3) Marxism

Historical and systematic study of principal themes of Marxist thought, from its Hegelian origins to its contemporary varieties, emphasizing the works of Marx and Engels. Taught in English. Prereq., 12 hours of GRMN or PHIL course work or instructor consent. Same as PHIL 4250. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-4253 (3) Philosophy of Language

Surveys seminal essays from Frege to the present on the philosophy of language. Taught in English.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-4301 (3) Gender, Race and Immigration in Germany and Europe

Introduces students to debates surrounding migration and race in contemporary Germany. Emphasis on reading texts in context using tools of cultural studies, integrating analyses of gender, race, nation, and sexuality. Texts may include film, literature, television, magazine images, etc. Topics include: questioning "multiculturalism," self-representation, integration, Islam, citizenship, violence, public space, youth culture, racism and nationalism. Taught in English. Same as GRMN 5301 and WMST 4301. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Courses Taught in Engl

GRMN-4330 (3) The Age of Goethe

German literature from 1770 to 1830. Close examination of representative texts from the periods of Sturm und Drang, classicism, and romanticism. Emphasizes philosophical and social background. Prereq., GRMN 3020 or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German

GRMN-4340 (3) Seminar in German Literature

Intensive study of a particular literary period, author, or genre. Secondary sources are used. Course content differs each time. May be repeated up to 6 total credit hours when topic varies. Prereq., GRMN 3020 or instructor consent.

GRMN-4450 (3) Methods of Teaching German

Required of students who desire the recommendation of the department for secondary school teaching positions. For student teaching in German, see EDUC 4712 under the School of Education. Restricted to students who have been admitted to the teacher education program in the School of Education. Prerequisites: Restricted to EDUC Majors only.

GRMN-4460 (6) High School German Teaching

Part of the supervised student teaching in a secondary school required for state certification to teach German. Restricted to students who have been admitted to the teacher education program in the School of Education. Prerequisites: Restricted to EDUC Majors only.

GRMN-4501 (3) Seminar: Literature in Cultural Context

Provides a broader basis for the work of literature, viewing it from various cultural perspectives. Specific content of course is defined by the instructor. May be repeated up to 6 total credit hours when topic varies. Taught in English.

GRMN-4502 (3) Nietzsche: Literature and Values

Emphasizes Nietzsche's major writings from 1872 to 1888 with particular attention to the critique of Western values. Includes a systematic exploration of doctrines, concepts, and ideas leading to the values of creativity. Taught in English. Same as HUMN 4502. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

GRMN-4503 (3) Issues in German Thought

Provides the opportunity to examine major issues in German philosophical, social, and religious thought from the end of German idealism to existentialism and critical theory. Emphasizes the relationship between ideas and social and political action. May be repeated up to 6 total credit hours when topic varies. Taught in English.

GRMN-4504 (3) Goethe's Faust

Systematic study of the Faust motif in Western literature, with major emphasis on Faust I and II by Goethe and Thomas Mann's Doctor Faustus. Taught in English. Same as GRMN 5504, COML 5504 and HUMN 4504. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

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GRMN

GRMN-4550 (3) Senior Seminar: The Roles of Intellectuals and Academics in German Culture

Examines the articulation of the German bourgeoisie during critical periods in German history. Looks at specific groups and their participation in German public culture, e.g., writers, artists, journalists, academics, and political figures. Students work closely with a faculty advisor during the semester and are expected to produce a major research paper. Prereq., GRMN 3020 or instructor consent. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) German (GRMN) or School of Education (EDUC) majors only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-4900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German](#)

GRMN-5010 (3) Theory and Practice of German Studies

Introduction to German Studies, with emphasis on research methodology, theoretical approaches, coverage of major currents in German intellectual and literary history from 1750-present, and exposure to fields interrelated with German Studies. Includes training in the use of electronic databases and archives and an introduction to online publication. Required of all graduate students. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5020 (3) Applied Linguistics and Foreign Language Teaching Methodology

Required of all graduate teaching assistants, this course provides a knowledge of the aspects of German linguistics that are important for teaching German and a survey of foreign language teaching methods and second language acquisition research. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5030 (3) Foundations of Critical Theory

An introductory study of nineteenth-century German philosophy (especially Kant, Hegel, and Marx). Required course for the graduate certificate in Critical Theory. GRMN 5030 and COML 5030 are the same course.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5051 (3) Critical Theory of the Frankfurt School

Serves as an introduction to the "Frankfurt School" and Critical Theory with particular emphasis upon rationality, social psychology, cultural criticism, and aesthetics. Through close readings of key texts by members of the school (Horkheimer, Benjamin, Adorno, Habermas) we will work toward a critical understanding of the analytical tools they developed and consider their validity. Taught in English. GRMN 4051, 5051 and COML 5051 are the same course.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Courses Taught in Engl](#)

GRMN-5210 (3) Seminar: The Age of Enlightenment

Examines the influence of the emerging middle class on the transformation of aesthetic and societal values. Major works of theory, philosophy, literature, and criticism by Lessing, Herder, Kant, J. E. Schlegel, and others. Examines major literary and cultural influences from France and Great Britain. Prereq., graduate standing or instructor consent.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5220 (3) Seminar: Topics in the Age of Goethe

Examines various aspects of German-speaking society from the 1770s to 1830s. Topics may include Sturm und Drang as social commentary; romantic theory in the wake of the French Revolution; romantic nationalism; the Faust theme; Weimar as a cultural center; and others. May be repeated up to 6 total credit hours when topic varies. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5301 (3) Gender, Race, and Immigration in Germany and Europe

Introduces students to debates surrounding migration and race in contemporary Germany. Emphasis on reading texts in context using tools of cultural studies, integrating analyses of gender, race, nation, and sexuality. Texts may include film, literature, television, magazine images, etc. Topics include: questioning "multiculturalism," self-representation, integration, Islam, citizenship, violence, public space, youth culture, racism and nationalism. Taught in English. Same as GRMN 4301.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5310 (3) Seminar: Topics in the 19th Century

Examines the transformation of realism from Buechner to Gerhart Hauptmann. Topics may include literary responses to the Restoration; intellectuals and the Revolution of 1848; philosophy and literature; theatrical representations of woman, family, and gender; and others. May be repeated up to 6 total credit hours when topic varies. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5320 (3) Seminar: The German Novel from 1901--1956

Beginning with T. Mann's *Buddenbrooks*, charts the rise of the German novel in the early 20th century and examines such topics as Wilhelminian society; intellectuals and World War I; dehumanization and alienation; national socialism and literary exile; and others. Authors include T. Mann, H. Hesse, R. Rilke, F. Kafka, A. Seghers, and A. Zweig. Prereq., graduate standing or instructor consent.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5330 (3) Seminar: German Intellectuals and Society Between the Wars

Examines the period of social crisis and the intellectual responses to the collapse of the prewar order. Gives attention to the antidemocratic thought of Spengler, Juenger, Stefan George and his circle, to the emergence of existentialism with Scheler and Heidegger, and to the search for a new political humanism as evidenced by the work of Thomas Mann. Prereq., graduate standing or instructor consent.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5410 (3) Seminar: Topics in Early 20th Century German Society

Focuses on major issues, events, movements, and figures prior to World War II. Topics may include the ontology of lyric poetry; Berlin in the 1920s; exiles, their communities, and their writings; women writers from Andreas-Salome to Anna Seghers; topics in German film; and others. May be repeated up to 6 total credit hours when topic varies. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-5420 (3) Seminar: Topics in Later 20th Century German Society

Analyzes major currents and events such as the Holocaust, coming to terms with the past (Vergangenheitsbewältigung), German Democratic Republic (GDR) literature, and responses to the reunification. Topics may include the Austrians from Anschluss to Haider; Paul Celan; East German writers between Wolf Biermann and Christa Wolf; topics in German film; and others. May be repeated up to 6 total credit hours when topic varies. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Graduate Courses

GRMN-5504 (3) Goethe's Faust

Systematic study of the Faust motif in Western literature, with major emphasis on Faust I and II by Goethe and Thomas Mann's Doctor Faustus. Taught in English. Same as GRMN 4504 and COML 5504. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Graduate Courses

GRMN-5510 (3) Seminar: Open Topics in German Civilization

Focuses on cultural issues that cross lines of literary periodization. Topics may include the theater as social criticism from Lessing to Handke; forms of German protest from Luther to Thomas Mann; nihilism from Bonaventura to Thomas Bernhard; topics in German film; and others. May be repeated up to 6 total credit hours when topic varies. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Graduate Courses

GRMN-5520 (3) Seminar: Current Issues in German Literature and Media

Examines issues pervading contemporary German literature and media, such as concerns of youth, xenophobia, stereotyping as it affects women and men in their relations, work experience, feminism, problems connected with the reunification, and other issues. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Graduate Courses

GRMN-5900 (1-6) Independent Study

May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Germanic & Slavic Languages & Literature German Graduate Courses

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

May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

GRMN-6940 (1) Master's Degree Candidate

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [German Graduate Courses](#)

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GRTE

GRTE-5010 (1-5) Graduate Humanities for Teachers

Addresses special topics in arts and humanities with an emphasis on building conceptual understanding of content and enhancing teacher's practice in teaching this content.

[School of Education](#) [Education](#) [Graduate Teacher Education](#)

GRTE-5020 (1-5) Graduate Mathematics for Teachers

Addresses special topics in mathematics with an emphasis on building conceptual understanding of content and enhancing teacher's practice in teaching this content.

[School of Education](#) [Education](#) [Graduate Teacher Education](#)

GRTE-5030 (1-5) Graduate Natural Sciences for Teachers

Addresses special topics in natural sciences with an emphasis on building conceptual understanding of content and enhancing teacher's practice in teaching this content.

[School of Education](#) [Education](#) [Graduate Teacher Education](#)

GRTE-5040 (1-5) Graduate Social Sciences for Teachers

Addresses special topics in social sciences with an emphasis on building conceptual understanding of content and enhancing teacher's practice in teaching this content.



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GSAP

GSAP-1000 (3) World Politics and Society

Explores the history leading up to-and away from-the attacks of 9/11 within an American framework. Topics to be covered include: America's relationship with key countries since 1945; the rise of Muslim extremism; modern terrorism and its meaning; the importance of oil; and the events of 9/11 and the Bush Administration's response to it, at home and abroad. Restricted to G-RAP students.

[College of Arts & Sciences](#) [Global Studies Residential Academic Program](#)

GSAP-1500 (1) Community Engagement

Facilitates community-level service and volunteer opportunities in the University, Boulder-Denver area, and Colorado communities for first-year students. Participants will learn how to conduct basic community research and will design their own volunteer, service, or internship plan in conjunction with the instructor and the class, targeting a university center, community nonprofit, local business, government agency, or international institution.

[College of Arts & Sciences](#) [Global Studies Residential Academic Program](#)

GSAP-2010 (3) Introduction to National Security

Introduces national and international security studies to students. The course examines the influence of history, domestic politics, and international events and actors on the development of security policy. Restricted to G-RAP students.

[College of Arts & Sciences](#) [Global Studies Residential Academic Program](#)

GSAP-2020 (3) Topics in National Security

Intensive look at specific security issues. This course focuses on the specifics of policy development related to functional issues (political, military, and non-traditional) as well as threats within specific regions. In addition to class, each student will focus on an issue of their choosing. Recommended prereq., GSAP 2010. Restricted to G-RAP students.

[College of Arts & Sciences](#) [Global Studies Residential Academic Program](#)

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GSL

GSL-3401 (3) The Heart of Europe: Filmmakers and Writers in 20th Century Central Europe

Surveys the major works of 20th century central and central east European film and literature. Examines cultural production in the non-imperial countries and non-national languages of the region including Yiddish, Belarusian, Czech, Hungarian, Polish and Romanian, among others. Traces the rise of nationalism over the course of the century from the age of empires through the "Cold War." Taught in English. Same as JWST 3401.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Germanic and Slavic Courses](#)

GSL-5230 (3) Russian Cultural Idioms

Focuses on the critical analysis of the Russian cultural discourse through Russian idioms. Taught in Russian. Same as RUSS 4230.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Germanic and Slavic Courses](#)

GSL-5352 (3) Russian Novel: Theory and Practice

Examines the Russian novel and its evolution as well as Western and Russian theories of the novel as they engage and reflect upon the claims of modernity. Taught in English. May be repeated up to 6 total credit hours. Same as COML 5352.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Germanic and Slavic Courses](#)

GSSL-5421 (3) Gogol

Explores major fictional and dramatic texts of great Russian writer Nikolai Vasil'evich Gogol (1809-52) -- "The strangest prose-poet Russia ever produced" (Nabokov). Works will be analyzed in the context of Western and Russian Romanticism. Relevant nonfiction texts will also be introduced when appropriate. Class will be run largely as group discussion, with necessary historical and critical background provided. Taught in English. Recommended prereq., RUSS 4811.

College of Arts & Sciences Germanic & Slavic Languages & Literature Germanic and Slavic Courses

GSSL-5431 (3) Dostoevsky

Focuses on close reading of major novels and other works by Dostoevsky, one of the most important psychological novelists in modern literature, a profound religious thinker, and the greatest crime novelist in the world. Taught in English. Same as RUSS 4431.

College of Arts & Sciences Germanic & Slavic Languages & Literature Germanic and Slavic Courses

GSSL-5441 (3) Tolstoy

Examines the development of Tolstoy's thought and literary style through study of the novel War and Peace and short works from different periods of Tolstoy's writing. Taught in English. Same as RUSS 4441.

College of Arts & Sciences Germanic & Slavic Languages & Literature Germanic and Slavic Courses

GSSL-5451 (3) Chekhov

Analyzes the life and creative works of the author of some of the funniest and some of the gloomiest stories in Russian literature. Examines Chekhov's major plays that laid the foundation for modernist theatre. Taught in English. Same as RUSS 4451.

College of Arts & Sciences Germanic & Slavic Languages & Literature Germanic and Slavic Courses

GSSL-5471 (3) Women in 20th Century Russian Culture

Acquaints students with major issues concerning women in 20th century Russian culture. Examines sources from folk culture, popular culture, and high culture (poetry, prose, songs, tales, visual art, and cinema) that mythologize or question women's images and societal roles. All texts and films are offered in English translation. Taught in English. Same as RUSS 4471 and WMST 4471.

College of Arts & Sciences Germanic & Slavic Languages & Literature Germanic and Slavic Courses

GSSL-5830 (3) Topics in Literature and History

May be repeated up to 6 total credit hours. Taught in English. Same as COML 5830.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Germanic and Slavic Courses](#)

GSSL-5841 (3) History of Modern Russian Drama

Examines Russian plays of the 20th and 21st centuries (from Chekhov to contemporary authors) in the context of the Western theatre theory. Through the analysis of plays and their theatrical/filmic productions, students will familiarize themselves with main genres of modern drama and most influential directorial styles from Stanislavsky's "method" to contemporary verbatim theatre. All readings are in English. Prereq., RUSS 2221 or instructor consent. Same as RUSS 4841. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Germanic and Slavic Courses](#)

GSSL-5851 (3) Critical Thinking: Russian Film and Society

Through structured discussions, selected readings, and written assignments, examines topics in Russian film from socio-historical and cultural studies perspectives. Identification and critical analysis of concepts and assumptions underlying differing cinematic approaches to controversial topics. Taught in English. Same as RUSS 4851.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Germanic and Slavic Courses](#)

GSSL-5861 (3) Absurd and Supernatural in Russian Literature

Studies themes of grotesque, bizarre, surreal, absurd, supernatural, and fantastic in Russian short stories and novels of the 19th and 20th centuries. Discusses works by Pushkin, Gogol, Dostoevsky, Kharmis, Bulgakov, Siniavskii, Petrushevskaia, and Pelevin, within contexts of Russian folklore, Freud and Jung's interpretations of jokes and dreams, and Romanticism. Recommended prereq., one upper division humanities course. Taught in English. Same as RUSS 4861.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Germanic and Slavic Courses](#)

GSSL-5900 (1-6) Independent Study

May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent required. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Germanic and Slavic Courses](#)



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HEBR

HEBR-1010 (4) Beginning Hebrew 1

First semester Hebrew is a beginning level course designed for students who have little or no prior knowledge of Hebrew. Begins with learning the Hebrew alphabet and immediately starts developing rudimentary Hebrew conversational, reading and writing skills. By the end of the semester students are expected to have attained basic understanding and expressive abilities in Hebrew.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Hebrew](#)

HEBR-1020 (4) Beginning Hebrew 2

Second semester builds on Hebrew skills introduced in the first semester, with a focus on speaking, comprehension, reading and writing. Students learn new verbal tenses and paradigms. The course blends a communicative method with formal grammatical instruction. By the end of this semester students are expected to be able to converse in, comprehend, and produce written basic Hebrew. Prereq., HEBR 1010 (min. grade C-) or instructor consent.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Hebrew](#)

HEBR-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as JWST 1030.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Hebrew](#)

HEBR-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-2110 (4) Intermediate Hebrew 1

Third semester Hebrew builds on skills introduced in the first two semesters and focuses on speaking, comprehension, reading and writing. Students learn new verbal tenses and paradigms, modes of expression and syntactical forms. The course blends a communicative method with formal grammatical instruction. By the end of the semester students are expected to be able to converse in, comprehend, and produce written Hebrew at an intermediate level. Prereq., HEBR 1020 (min. grade C-) or instructor consent. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-2120 (4) Intermediate Hebrew 2

Focuses on texts, while still developing speaking, comprehension and writing skills. Students build on grammatical understanding while learning some of the more sophisticated verbal paradigms and nominal patterns. The course blends a communicative method with some formal grammatical instruction. By the end of this semester students are expected to converse in, comprehend, and produce written Hebrew at an intermediate level. Prereq., HEBR 2110 (min. grade C-) or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-2350 (3) Introduction to Jewish Culture

Explores the development and expressions of Jewish culture as it moves across the chronological and geographical map of the historic Jewish people, with an emphasis on the variety of Jewish ethnicities and their cultural productions, cultural syncretism, and changes. Sets the discussion in a historical context, and looks at cultural representations that include literary, religious, and visual texts. Taught in English. Same as JWST 2350. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-2352 (3) Introduction to Modern Jewish History

Explores the major historical events and socio-cultural themes in modern Jewish history including the French Revolution, the rise of modern anti-semitism, the international migration of Jews, the Holocaust, and the establishment of Israel. Taught in English. Recommended prereq., HEBR 2350.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-2551 (3) Jewish Literature: Jews Coming of Age

Study the work of Jewish writers in English and English translation. Looks at a broad spectrum of texts which show the various ways Jewish authors and poets across time and space have understood the world. Themes will include questions of secularity and tradition, diaspora, exile and citizenship, and the changes of modernity (social and political emancipation, world-wide wars, cultural transformation, new homelands). HEBR 2551 and JWST 2551 are identical courses. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-3010 (3) Third Year Hebrew, First Semester

Focuses on students' active Hebrew language skills acquired in the first four semesters of Hebrew at CU Boulder in weekly conversation and composition sessions. Develops grammatical understanding with a further exploration of the root, verbal and noun systems. Students are introduced to texts in contemporary Hebrew fiction and poetry, as well as some biblical readings. Prereq., HEBR 2120 (min grade C-) or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-3020 (3) Third Year Hebrew, Second Semester

Focuses on students' Hebrew language skills acquired in the first five semesters of Hebrew at CU Boulder in weekly conversation and composition sessions. Develops grammatical understanding with a further exploration of the root, verbal and noun systems. Students are introduced to texts in contemporary Hebrew fiction and poetry, as well as some biblical readings, academic texts and Israeli newspapers. Prereq., HEBR 3010 (minimum grade C-) or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-3202 (3) Women, Gender & Sexuality in Jewish Texts & Traditions

Reads some of the ways Jewish texts and traditions look at women, gender and sexuality from biblical times to the present. Starts with an analysis of the positioning of the body, matter and gender in creation stories, moves on to the gendered aspects of tales of rescue and sacrifice, biblical tales of sexual subversion and power, taboo-breaking and ethnos building, to rabbinic attitudes towards women, sexuality and gender and contemporary renderings and rereadings of the earlier texts and traditions. Taught in English. Same as JWST 3202. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-3840 (3) Independent Study

Prereqs., HEBR 1010, 1020, 2110, and 2120.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-3850 (3) Independent Study

Prereqs., HEBR 1010, 1020, 2110, 2120, and 3840.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-4101 (3) Topics in Hebrew Studies

Explores topics in Hebrew and Jewish literature and cultures. These may include topics such as diasporic literatures, Jewish artists and thinkers, courses on specific authors, figures or communities. Topics change each semester. May be repeated up to 9 total credit hours. Taught in English. HEBR 4101 and JWST 4101 are the same course.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-4203 (3) Israeli Literature: Exile, Nation, Home

Examines the creation and development of Israeli literature from its pre-State beginnings to the present day, from the writings of immigrants for whom Hebrew was not their mother tongue to a literature written by native Hebrew speakers. Considers texts written by Israeli Jewish and Arab writers and explores how ideas of exile, nation, and home play into the Israeli experience. Recommended prereqs., ENGL/JWST 3677, GRMN/JWST 2502; GRMN/JWST 3503; HEBR/JWST 2551; WRTG/JWST 3020. Same as JWST 4203. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew

HEBR-4301 (3) Venice: the Cradle of European Jewish Culture.

Explores the development of European Jewish culture from the late Middle Ages to the present by focusing on Jewish life in the city of Venice, Italy. Emphasis is on the development of Venetian print culture and emergence of Italy as a center of Jewish publishing in both the religious and secular world. The course examines a variety of cultural and historical material including early printings of the Talmud, the creation of Yiddish popular literature, Hebrew rabbinic literature, responses to political turmoil, and the aftermath of the Nazi genocide. Taught in English. Prereq., HEBR/JWST 2350. HEBR 4301 and JWST 4301 are the same course. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Hebrew



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HIND

HIND-1010 (5) Beginning Hindi 1

Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading, and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local South Asian cultural events. Credit not granted for this course and ASIA 1420. Formerly HNDI 1010.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Hindi](#)

HIND-1011 (3) Introduction to South Asian Civilizations

Survey of traditional and modern world views and experiences of people on the Indian subcontinent through literature and film, beginning with the Ramayana and including medieval tales, modern novels, and feature films. Formerly HNDI 1011. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Hindi](#)

HIND-1020 (5) Beginning Hindi 2

Continuation of HIND 1010. Provides a thorough introduction to the modern Hindi language, emphasizing speaking, listening, reading and writing skills. Proficiency-based course aims to place the student in the context of the native-speaking environment from the beginning of the course. Provides opportunities to participate in local South Asian cultural activities and events. Prereq., HIND 1010 (min. grade C) or instructor consent. Formerly HNDI 1020.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Hindi](#)

HIND-2110 (5) Intermediate Hindi 1

Emphasizes speaking, listening, reading and writing skills and culturally appropriate language use. Credit not granted for this course and ASIA 2420. Prereq., HIND 1020 (min grade C) or instructor consent. Meets MAPS requirement for foreign language. Formerly HIND 2010.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-2120 (5) Intermediate Hindi 2

Continuation of HIND 2110. Enhances students' speaking, listening, reading and writing skills and culturally appropriate language use. Prereq., HIND 2110 (min. grade C) or instructor consent. Formerly HIND 2020.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-2441 (3) Screening India: A History of Bollywood Cinema

Provides a critical overview of one of the world's largest and most beloved film industries, the popular Hindi cinema produced in Bombay (Mumbai) and consumed around the world under the label "Bollywood". Focus on the post-Independence era to the present, with introduction to key films, directors, stars, genres, formal techniques, and themes, as well as critical analyses of these and other topics. Formerly HNDI 2441.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-3110 (3) Advanced Hindi 1

Emphasizes speaking, listening and conversational fluently in Hindi, with a focus on cultural appropriate expression and practical knowledge. . Prereq., HIND 2120 (min. grade C) or instructor consent. Formerly HIND 3010.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-3120 (3) Advanced Hindi 2

Continuation of HIND 3110. Emphasizes reading, listening, and speaking fluency in Hindi-Urdu, with a focus on literary, cinematic and cultural themes in modern and contemporary Hindi-Urdu media and culture. Thematic focus of the course may change each semester. An effort will be made to encourage students to put their language skills into literary and cultural context. Prereq., HIND 3110 (min. grade C) or instructor consent. Formerly HIND 3020.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-3400 (3) Special Topics

Topics in Hindi. May be repeated up to 6 total credit hours for different topics. No prerequisites.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-3651 (3) Living Indian Epics: The Ramayana and the Mahabharata in the Modern Political Imagination

Explores the Ramayana and Mahabharata, two fundamental mythological pillars of Indian society, through literature, comic books, film, television, and political rhetoric as a means of examining major issues of religion, gender, popular culture, and social politics in contemporary India.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-3661 (3) South Asian Diasporas: Imagining Home Abroad

Examines fundamental questions of home, nation, identity, ethnicity, and foreignness in the context of the enormous South Asian diaspora. By means of literature, ethnography, and film, the various connotations of diaspora will be explored along with the cultural productions of members of the South Asian diaspora (both Indian and Pakistani).

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-3811 (3) The Power of the Word: Subversive and Censored 20th Century Indo-Pakistani Literature

Provides an overview of a selection of writings by important 20th century Indo-Pakistani authors, which will permit students to get acquainted with Indian literature. Provides insight into the experience of social and political events in the 20th century and the reaction of the government to the critical analysis and portrayal of these events. Taught in English. Formerly HNDI 3811. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-3821 (3) The Mahabharata as Literature, Performance, Ideology

Offers an in-depth introduction to the Mahabharata, reputedly the world's longest epic and one of the foundational works of Indian civilization. Synopsis of the full text and selected excerpts will be read, including a translation of the spiritual classic, Bhagavad Gita. Recent scholarship on the poem's historical, ritual, and mythic contexts as well as on its performance traditions will also be examined. Formerly HNDI 3821.

College of Arts & Sciences Asian Languages & Civilizations Hindi

HIND-3831 (3) The Many Faces of Krishna in South Asia Literature and Culture

Using both textual and visual sources, the multiple facets of Krishna in Indian religious experience will be explored through poetry and prose, painting and sculpture, music, dance, and drama. Formerly HNDI 3831.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Hindi](#)

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Courses

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Subject **Number**

HIST

HIST-1010 (3) Western Civilization 1: From Antiquity to the 16th Century

Surveys the development of Western civilization from its beginnings in the ancient near East through the Reformation of the 16th century. Also available through correspondence study. Credit not granted for this course and HIST 1030. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[Methodo, Comparative, Global](#)

HIST-1015 (3) History of the United States to 1865

Surveys American history from first settlement until end of the Civil War. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

[College of Arts & Sciences](#)
[History](#)
[US: Chronological Periods](#)

HIST-1018 (3) Introduction to Early Latin American History to 1810

Introduces students to the history of what is now called Latin America from about 1450 to the wars of independence in the nineteenth century. The course examines pertinent aspects of the societies and cultures of indigenous people, the history of European conquest, and the most salient features of the Spanish and Portuguese colonial empires in America. Students who have taken HIST 1038 may not receive credit for either HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#)
[History](#)
[World Areas: Specific Regions](#)

HIST-1020 (3) Western Civilization 2: 16th Century to the Present

Surveys political, economic, social, and intellectual developments in European history from the 16th century to the present. Similarities and contrasts between European states are underscored, as is Europe's changing role in world history. Also available through correspondence study. Credit not granted for this course and HIST 1040. Approved for GT-HI1. Meets MAPS requirement for social science: general or world history. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-1025 (3) History of the United States since 1865

Surveys social, economic, political, and cultural development of the United States from the close of the American Civil War to the present. Also available through correspondence study. Approved for GT-HI1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | History | US: Chronological Periods

HIST-1028 (3) Introduction to Modern Latin American History since 1800

Introduces students to the history of Latin America from independence to the present. The course investigates the social implications of various models of economic development, the opportunities and difficulties resulting from economic ties with wealthier countries, the consequences of ethnic, gender and class divisions, and the struggles of Latin Americans to construct equitable political systems. Students who have taken HIST 1038 may not receive credit for HIST 1018 or 1028. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1051 (3) The World of the Ancient Greeks

Surveys the emergence, major accomplishments, failures, and decline of the world of the ancient Greeks, from Bronze Age civilizations of the Minoans and Mycenaeans through the Hellenistic Age (2000--30 B.C.) Same as CLAS 1051. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-1061 (3) The Rise and Fall of Ancient Rome

Surveys the rise of ancient Rome in the eighth century B.C. to its "Fall" in the fifth century A.D. Emphasizes political institutions, foreign policy, leading personalities, and unique cultural accomplishments. Same as CLAS 1061. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-1113 (3) Introduction to British History to 1660

Deals with Roman, medieval, and early modern periods. Covers the demographic, economic, and social patterns, political and religious developments, and cultural changes that contributed to the formation of the English nation. Formerly HIST 2103. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-1123 (3) Introduction to British History Since 1660

Deals with the period from the 17th century to the present. Political, economic, social, and imperial developments that contributed to creation of the modern industrial and democratic state are the major issues covered. Formerly HIST 2123. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-1218 (3) Introduction to Sub-Saharan African History to 1800

Provides an introduction to African history, beginning with early man and ending in 1800. This course moves rapidly through civilizations as different as Ancient Egypt, Mali, Oyo, and the Cape Colony, touching on important developments and highlighting themes relevant to the history of Africa as a whole. These include migration, technology, environment, trade, gender, religion, slavery, and more. Formerly HIST 1208. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1228 (3) Introduction to Sub-Saharan African History Since 1800

Introduces students to the history of Sub-Saharan Africa from 1800 to the present. Major topics of study included the trans-Atlantic slave trade, African state-building, European colonialism, African responses to colonialism and issues facing independent African nations, ranging from debt to HIV/AIDS. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1308 (3) Introduction to Middle Eastern History

Interdisciplinary course that focuses on medieval and modern history of the Middle East (A.D. 600 to the present). Introduces the Islamic civilization of the Middle East and the historical evolution of the region from the traditional into the modern eras. Covers social patterns, economic life, and intellectual trends, as well as political development. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1518 (3) Introduction to South Asian History to 1757

Introduces the history of South Asia, providing a general acquaintance with the narratives and interpretations of ancient and medieval history of the Indian subcontinent from the rise of the Indus Valley Civilization in 3500 BCE to the end of the Mughal Empire in 1757 CE. It is intended for students with little or no prior knowledge of the region. Credit not granted for this course and HIST 1408. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1528 (3) Introduction to South Asian History since 1757

Introduces the history of modern South Asia from 1757 to the present. Examines themes such as the nature of British colonial state formation in South Asia, social transformation under British rule, modes of anticolonial resistance movements, particularly Mahatma Gandhi's nonviolent civil disobedience movement, Muslim nationalism and the formation of Pakistan, and current political conflicts involving India, Pakistan and Afghanistan. Formerly HIST 1408. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1618 (3) Introduction to Chinese History to 1644

Introduces students to the history of China from Neolithic period to Ming period (1368-1644). Investigates the social patterns, gender relations, economic structure, intellectual trends, and political developments of China. Pays special attention to China's long-standing interaction with the rest of the world, which played a crucial role in the historical development of Chinese society. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1628 (3) Introduction to Modern Chinese History

Introduces students to modern Chinese history and culture, from the 17th century to the present. The course considers the pertinent aspects of modern China, focusing on its social patterns, economic structure, intellectual trends, and political developments. Similar to HIST 1608. Credit not granted for this course and HIST 1608. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-1708 (3) Introduction to Japanese History

A broad interdisciplinary survey of the history of Japan from earliest times to the 20th century. Explores the development of political institutions, social structures, cultural and religious life, economic development, and foreign relations in an historical perspective. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences History World Areas: Specific Regions

HIST-1800 (3) Introduction to Global History

Applies a broad perspective to the global past in order to illuminate how common historical patterns and processes as well as unique elements shaped the human experience. Using a thematic approach, this introductory course highlights cross-cultural interactions among societies, and, when relevant, how historical processes that began centuries ago still impact the contemporary world. Topic will vary by semester. Prereq., any other 1000-level HIST course. Restricted to History BA and History additional majors only. Prerequisites: Restricted to History (HIST) BA or ADL majors only.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-1818 (3) Introduction to Jewish History, Bible to 1492

Study the origins of a group of people who call themselves, and whom others call, Jews. Focus on place, movement, power/powerlessness, gender, and the question of how to define Jews over time and place. Introduces Jews as a group of people bound together by a particular set of laws; looks at their dispersion and diversity; explores Jews' interactions with surrounding cultures and societies; introduces the basic library of Jews; sees how Jews relate to political power. Same as JWST 1818.

College of Arts & Sciences History World Areas: Comp and General

HIST-1828 (3) Introduction to Jewish History since 1492

Surveys the major historical developments encountered by Jewish communities beginning with the Spanish Expulsion in 1492 up until the present day. We will study the various ways in which Jews across the modern world engaged with the emerging notions of nationality, equality, and citizenship, as well as with new ideologies such as liberalism, socialism, nationalism, imperialism and antisemitism. Same as JWST 1828. Formerly HIST 1108. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences History World Areas: Specific Regions

HIST-2002 (3) Introduction to Central and East European Studies

Examines major themes in the history of Russia and East-Central Europe since the early modern era, introduces the literature and arts of the region, and presents current political, social, and economic issues. Same as CEES 2002. Approved for GT-SS3. Approved for arts and sciences core requirement: historical context.

College of Arts & Sciences History Europe: Modern

HIST-2015 (3) The History of Early America

Examines major themes in the development of colonial societies in North America from the 15th to the early 19th centuries. Explores

intercultural relations, economic development, labor systems, religion and society, and family life. Specific course focus may vary. Approved for GT-HI1. Approved for arts and sciences core curriculum: United States context. Prerequisites: History majors are restricted from taking this course.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

HIST-2100 (3) Revolution in History

Examines the causes, character, and significance of political revolution in world history. Concentrating on one of the major revolutions of modern history, it examines why revolutions occur, who participates in revolution, and to what effect. Specific course focus varies. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: historical context. Prerequisites: History majors are restricted from taking this course.

[College of Arts & Sciences](#) [History](#) [Methodo, Comparative, Global](#)

HIST-2112 (3) Early Modern Societies (1450--1700)

Examines major themes in European Early Modern history. Issues to be explored include the Renaissance and the Reformation, popular culture, social history, and states and warfare. Specific course focus may vary. Similar to HIST 2113. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: historical context. Prerequisites: History majors are restricted from taking this course.

[College of Arts & Sciences](#) [History](#) [Europe: Modern](#)

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Courses

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Subject **Number**

HIST

HIST-2126 (3) Modern U.S. Politics and Diplomacy

Traces the development of contemporary U.S. politics and foreign relations. Analyzes subjects such as the Cold War, the relationship between foreign and domestic politics, the developing meaning of conservatism, liberalism, and radicalism. Explains the impact of race, gender, class, and immigration. Specific course focus may vary. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: United States context or contemporary societies. Prerequisites: History majors are restricted from taking this course.

[College of Arts & Sciences](#) [History](#) [US: Topical Courses 1](#)

HIST-2166 (3) The Vietnam Wars

Traces the causes, course, and outcome of the wars in Vietnam from 1940 until 1975. Explains the successes of the revolutionaries and the failures of the French and Americans. Analyzes the development of Vietnamese nationalism, French colonialism, and U.S. intervention. Similar to HIST 4166. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: contemporary societies or United States context. Prerequisites: History majors are restricted from taking this course.

[College of Arts & Sciences](#) [History](#) [US: Topical Courses 1](#)

HIST-2170 (3) History of Christianity 1: To the Reformation

General introduction to the history of Christianity from its beginnings through the first period of the Protestant Reformation. Examines religious life and the church in relation to its social and cultural setting. Approved for GT-HI1. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [History](#) [Methodo, Comparative, Global](#)

HIST-2220 (3) History of War and Society

Focuses on war and society in a variety of global contexts. Explores the character, origins, and social, political, and intellectual impacts of war in contexts ranging from several centuries of international conflict to the experience of individual nations in specific wars. Topic varies in any given semester; contact Department of History for details. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: historical context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-2437 (3) African American History

Surveys African American history. Studies, interprets, and analyzes major problems, issues, and trends affecting African Americans from about 1600 to the present. Same as ETHN 2432. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: human diversity or United States context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences History US: Topical Courses 2

HIST-2516 (3) America through Baseball

Baseball could not have existed without America. Course explains how the game fit into the larger context of social, cultural, economic, and political history from the nineteenth century to the present. Studies the events and people who made baseball the national pastime. Similar to HIST 4556. Restricted to non-History majors only. Approved for arts and sciences core curriculum: United States context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences History US: Topical Courses 1

HIST-2616 (3) U.S. Women's History

Examines the history of women in United States culture and society over time. Particular emphasis on the roles of women in family, economy, society, and politics. Specific course focus may vary. History majors are restricted from taking this course. Approved for GT-HI1. Approved for arts and sciences core curriculum: human diversity. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences History US: Topical Courses 1

HIST-2629 (3) China in World History

Examines the multiple connections between Chinese history and other parts of the world over the course of China's long history. History majors are restricted from taking this course. Approved for arts and sciences core curriculum: historical context. Prerequisites: History majors are restricted from taking this course.

College of Arts & Sciences History World Areas: Comp and General

HIST-2636 (3) Women of Color and Activism

Studies the history of social activism in the United States by women of color, with an emphasis on modes of social activism, issues that have organized specific communities of color, issues that have crossed ethnic/racial boundaries, and the interaction of women from

different ethnic/racial groups, including women of color and white women. Recommended prereq., WMST 2000 or 2600. Same as WMST 2400. Approved for GT-HI1. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-3011 (3) Seminar in Ancient History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-3012 (3) Seminar in Modern European History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Modern

HIST-3018 (3) Seminar in Latin American History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3020 (3) Historical Thinking & Writing

Develops the research techniques and habits of mind required to succeed in the History major, honing students' critical, analytical, and synthetic skills while introducing them to History as a discipline and a way of understanding the world. Students practice the kinds of writing required in upper-division History classes. Topics will vary. Prereq., HIST 1080 and ARSC 1080, 1150, WRTG 1100, 1150 or 1250. Restricted to sophomore, junior and seniors. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3109 (3) Seminar in Asian History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) History (HIST) majors only.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-3110 (3) Honors Seminar

Practical historiography for students who wish to write a senior honors thesis. Emphasizes choice of topic, critical methods, research, organization, argumentation, and writing. May be repeated up to 6 total credit hours. Prereqs., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-), honors standing, and instructor consent.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3112 (3) Seminar in Renaissance and Reformation

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Modern

HIST-3113 (3) Seminar in Medieval and Early Modern English History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-3115 (3) Seminar in Early American History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-3116 (3) Seminar in American Diplomatic History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-3120 (3) Honors Thesis

Prereq., HIST 3110 and instructor consent.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3133 (3) Seminar in Britain since 1688

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-3212 (3) Seminar in Early Modern Europe

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Modern

HIST-3218 (3) Peoples and Cultures of West Africa

Deals with the history and anthropology of selected west African societies in the period before the imposition of European colonial rule. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Same as ANTH 3218. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3317 (3) Seminar in the American West

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | US: Topical Courses 2

HIST-3328 (3) Seminar in Middle Eastern History

Examines selected issues in modern Middle Eastern history. Check with the department concerning the specific subject of the seminar. May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to junior/senior HIST majors.

College of Arts & Sciences | History | World Areas: Specific Regions



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HIST

HIST-3414 (3) Seminar in European Intellectual History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

[College of Arts & Sciences](#) [History](#) [Europe: Topical](#)

HIST-3415 (3) Seminar in Recent American History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to junior/senior HIST majors. .

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

HIST-3416 (3) Seminar in American Society and Thought

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

[College of Arts & Sciences](#) [History](#) [US: Topical Courses 1](#)

HIST-3417 (3) Seminar in African American History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

[College of Arts & Sciences](#) [History](#) [US: Topical Courses 2](#)

HIST-3511 (3) Seminar in Medieval History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-3516 (3) American Culture and Reform, 1880--1920

Addresses the issues of reform, religion, and culture that emerged as a 19th century world view confronted a 20th century America. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-3616 (3) Seminar in U.S. Women's History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-3628 (3) Seminar in Recent Chinese History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3713 (3) Seminar in Russian History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-3718 (3) Seminar in Japanese History

May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3800 (3) Seminar in Global History

Organized around themes that change year to year, this seminar allows students to explore and research processes, phenomena, and events of global significance in historical context. Stress will be upon subjects that span multiple world areas. Possible topics include: the international arms trade; slavery; health and disease; youth culture; women's rights; genocide. See department for current theme. May be repeated up to 6 total credit hours. Prereq., WRTG 3020 or an acceptable alternative upper-division writing course (min grade C-) and a History GPA of 2.0 or higher. Restricted to HIST majors. Formerly HIST 3050. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3840 (1-3) Independent Study

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-3841 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-3842 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Modern

HIST-3843 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Specific Countries

HIST-3844 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Topical

HIST-3845 (1-3) Independent Study

College of Arts & Sciences | History | US: Chronological Periods

HIST-3846 (1-3) Independent Study

College of Arts & Sciences | History | US: Topical Courses 1

HIST-3847 (1-3) Independent Study

College of Arts & Sciences | History | US: Topical Courses 2

HIST-3848 (1-3) Independent Study

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-3849 (1-3) Independent Study

College of Arts & Sciences | History | World Areas: Comp and General

HIST-4013 (3) English Constitutional History to 1688

Examines the origins and developments of English legal and political institutions, including kingship, the common law, procedure, and the court and jury system from the Anglo-Saxon period to the 17th century. Emphasizes the implications of these institutions for the development of contemporary American and English legal systems. Prereq., HIST 1010, 1030, 2103 or 2543.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4016 (3) African American History, 1619--1865

Explores the history of Africans in America from the first arrivals to emancipation, and their role in the social, cultural, economic, and political evolution of the United States. Prereq., HIST 1015 or 1035. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-4018 (3) Aztecs, Incas, and the Spanish Conquest of the Americas

Building upon contemporary texts and modern histories of both famous and ordinary people, this course examines the indigenous empires known as the Aztecs and the Incas. It also examines the encounter of Europeans and native people, following the history of exploration and conquest from the time of Columbus to about 1550. Equal consideration is given to the course's three components: Aztec,

Inca and the Spanish conquest. Recommended prereqs., HIST 1018 or 3020.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

HIST-4020 (3) Capstone: Comparative History

Explores historical themes from a comparative perspective. As a culmination of the major, it encourages students to think more analytically about historical change. Consult the online Schedule Planner for specific topics. Team-taught by several faculty. May be repeated up to 6 total credit hours within the degree. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) History (HIST) majors (excludes minors).

[College of Arts & Sciences](#) [History](#) [Methodo, Comparative, Global](#)

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Courses

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HIST

HIST-4021 (3) Athens and Greek Democracy

Studies Greek history from 800 B.C. (the rise of the city-state) to 323 B.C. (the death of Alexander the Great). Emphasizes the development of democracy in Athens. Readings are in the primary sources. Same as CLAS 4021. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

HIST-4030 (3) History of Slavery: Origins to Present

Examines slavery across the globe from its origins in ancient societies to the present. Includes the legal, social, economic, linguistic, and gender aspects of slavery, among other subjects. Restricted to sophomores/juniors/seniors. .

[College of Arts & Sciences](#) [History](#) [Methodo, Comparative, Global](#)

HIST-4031 (3) Alexander the Great and the Rise of Macedonia

Covers Macedonia's rise to dominance in Greece under Philip II and the reign and conquests of Alexander the Great. Prereq., one of the following: CLAS 1509, 3039, 3113, 4051, 4139, 4149, CLAS/HIST 1051, 2041, 4021, or 4041. Same as CLAS 4031.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

HIST-4040 (3) The History of Space Exploration and Defense

This course examines the development and impact of American, Soviet/Russian, and European civilian and military space activities from the dawn of the space age to the space challenges of the 21st century. Restricted to juniors/seniors. Prerequisites: Restricted to students

with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences History Methodo, Comparative, Global

HIST-4041 (3) Classical Greek Political Thought

Studies main representatives of political philosophy in antiquity (Plato, Aristotle, Cicero) and of the most important concepts and values of ancient political thought. Prereq., CLAS/HIST 1051, CLAS/HIST 1061, HIST 1010, PSCI 2004, or PHIL 3000. Restricted to sophomores/juniors/seniors. Same as CLAS 4041 and PHIL 4210.

College of Arts & Sciences History Europe: Ancient and Medieval

HIST-4050 (3) The World War II Era

The World War II era witnessed transformations in the social, political, and economic orders across the globe. Traces the domestic and international developments, including military issues, that shaped the period in Europe, Asia, and the United States and assesses the war's legacy. Restricted to juniors/seniors.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-4053 (3) Britain and the Empire, 1688--1964

Examines the external polity of Great Britain from 1688 to 1964 in Europe, the East, Africa, and the Americas. Same as HIST 5053. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History Europe: Specific Countries

HIST-4061 (3) Twilight of Antiquity

Explores the reasons for the fall of the Roman Empire in the western Mediterranean and its survival in the east as Byzantium. Emphasizes Christianity; barbarians; social, economic, and cultural differences; contemporary views of Rome; and modern scholarship. No Greek or Latin is required. Same as HIST 5061 and CLAS 4061.

College of Arts & Sciences History Europe: Ancient and Medieval

HIST-4063 (3) Women in Victorian England

Examines changing roles and status of women in a period of expansion. Studies the impact of industrialization on working women, sexuality, family planning, expansion of women in education, politics and the professions, the single women crisis, and women's rights. Restricted to sophomores/juniors/seniors. Same as WMST 4063.

College of Arts & Sciences History Europe: Specific Countries

HIST-4064 (3) Early Modern Spain

Surveys the history of the Iberian Peninsula from the late medieval period through early modern period. Explores the thought, art, politics, and socio-economic milieu of Spain during the Golden Age. Topics include attitudes toward minorities, the Inquisition, the establishment of a colonial empire, rituals, court culture and architecture, religious conflicts, and literary production. Prereq for HIST 4064., HIST 1010 or 1030. Same as HIST 5064. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Topical

HIST-4071 (3) Seminar in Ancient Social History

Considers topics ranging from demography, disease, family structure, and the organization of daily life to ancient slavery, economics, and law. Focuses either on Persia, Greece, or Rome and includes a particular emphasis on the methodology required to reconstruct an ancient society, especially the interpretation of problematic literary and material evidence, and the selective use of comparisons with better known societies. No Greek or Latin required. May be repeated up to 9 total credit hours. Same as CLAS 4071. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4081 (3) The Roman Republic

Studies the Roman Republic from its foundation in 753 B.C. to its conclusion with the career of Augustus. Emphasizes the development of Roman Republic government. Readings are in the primary sources. No Greek or Latin required. Same as CLAS 4081. Prerequisites: Restricted to History Majors only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4083 (3) Revolution and Nationalism in Modern Ireland

Surveys Irish nationalist movements since the eighteenth century, treating constitutional nationalism, revolutionary republicanism, and Gaelic cultural movements while also examining the development of Unionism in Ulster as a response to political and cultural nationalism. Emphasizes the political, religious, and cultural roots of the current sectarian crisis in Northern Ireland, and analyzes that crisis up to the present day. Prereqs., HIST 1020, 1040, 2123, or 4053. Credit not granted for this course and HIST 2513. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4091 (3) The Roman Empire

Studies Imperial Roman history beginning with the Roman Revolution and ending with examination of the passing of centralized political authority in the western Mediterranean. Emphasizes life, letters, and personalities of the Empire. Same as CLAS 4091. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4109 (3) World War II in Asia and the Pacific

For Asia, World War II began with the Mukden Incident (1931), resulting in the Japanese domination of Manchuria and leading to a full-scale war between China and Japan in 1937. Only after the Japanese attacked the U.S. Pacific fleet at Pearl Harbor four years later did the United States enter the war. Discusses the various socioeconomic and political factors leading to the war in Asia, examines the nature of the conflict on the Asian mainland and in the Pacific, and assesses legacy of the war on all those involved. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-4110 (3) Natives and Newcomers: Encounters in the Americas

Focuses on the first generations of interaction between natives and newcomers in the Americas, 1492-c.1650. Class will open with general section on colonialism and contact dynamics, then explore four contact areas (Caribbean, Valley of Mexico, St. Lawrence River Valley, Chesapeake) in depth. In-class discussion of primary sources a critical component of the course. Prereq., junior standing or successful completion of one lower-division history course.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4116 (3) U.S. Diplomatic History, 1865-1939

Traces the rise of the United States to world power. Explores the interactions of expansionist and isolationist impulses with politics, ideology, culture, and economics. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-4118 (3) History of Mexico to 1821

Studies Mexican history beginning with roots and evolution of pre-Columbian civilizations and concluding with the events of Mexican independence in 1821. Emphasizes society and culture of the Aztecs and Mayans, the Spanish conquest of Mexico, and the colonial regime of New Spain. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4119 (3) Latin American Revolutions

Examines the origins, development and continuing influence of 20th-Century Latin American revolutionary movements, with a focus on placing these struggles in comparative historical context. Explores various approaches to revolution and the general role of left political formations in Latin America. Examples will be drawn from various Latin American countries, including Mexico, Guatemala, Cuba, Chile and Nicaragua. Prereq., HIST 1038. Same as HIST 5119. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or

Senior) only.

College of Arts & Sciences History World Areas: Comp and General

HIST-4122 (3) Europe During the Renaissance

Explores the history and culture of Western Europe, 1300--1520. Comprehensive in scope, with analysis of political, economic, social, religious, intellectual, and artistic matters. Discusses significance of the Renaissance for origins of modern civilization. Prereq., HIST 1010. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences History Europe: Modern

HIST-4123 (3) Medieval England

Treats the major developments in English history from the Anglo-Saxon period through the 15th century. Emphasizes late medieval English society during the 13th and 14th centuries. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences History Europe: Specific Countries

HIST-4125 (3) British Colonial America, 1580--1756

Studies settlement and evolution of British Colonial America until the Seven Years' War. Prereqs., HIST 1015 or 1035. Same as HIST 5125. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Chronological Periods

HIST-4126 (3) U.S. Diplomatic History since 1940

Traces the development of the United States as a superpower. Special attention is paid to the way in which foreign policy was created and the relationship between foreign and domestic affairs. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Topical Courses 1

HIST-4128 (3) The Emergence of Modern Mexico

Study of Mexican history continues with the establishment of independence in 1821. Examines the upheavals of the Mexican Revolution and culminates with recent events in Mexico. Same as ETHN 4126 and HIST 5128. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History World Areas: Specific Regions

HIST-4131 (3) The Origins of Christianity

Surveys the sources for the development of ancient Christianity from the ministry of Jesus Christ to the conversion of the emperor Constantine in the early fourth century. Through lectures and a close reading of primary source materials in translation, students will examine the social activity and theological development of early Christians in their Roman and Jewish context. Prereq., HIST 1010.

[College of Arts & Sciences](#) | [History](#) | [Methodo, Comparative, Global](#)

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HIST

HIST-4133 (3) Tudor England

Deals with the history of England from 1485 to 1603. Examines patterns of daily life, the impact of the Reformation and the Renaissance, and the development of Parliament and the monarchy under the Tudor rulers, especially Henry VIII and Elizabeth. Prereqs., HIST 1010, 1030, or 2103. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [History](#) [Europe: Specific Countries](#)

HIST-4134 (3) Elizabeth I and Her Times

Interdisciplinary course explores different aspects of the reign of Elizabeth I: social and political history; literature; theater; and music. Explores the role and impact of a female ruler on English culture. Same as ENGL 4583 and THTR 4091. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [History](#) [Europe: Topical](#)

HIST-4138 (3) Southwest Borderlands to 1900

Explores the history of the region that would become the American Southwest to 1900. Focusing on themes of novelty, conflict, and adaptation, class explores how changes in ecology, demography, economy, and technology transformed relations between native peoples, Spaniards, and Mexicans. Concludes with unit on causes, events, and consequences of the U.S.-Mexican War. Restricted to sophomores/juniors/seniors.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

HIST-4143 (3) Stuart Britain

Covers the history of the British Isles from 1603 to 1714, the era of the English Civil War and the Glorious Revolution. Traces economic and social relationships, cultural change, and religious and political conflict under the Stuart monarchs. Prereq., HIST 1010, 1030, 2103, or 2123. Restricted to sophomores, juniors, and seniors.

College of Arts & Sciences History Europe: Specific Countries

HIST-4146 (3) Military History

Examines America's national defense and war efforts from the Spanish American War to the present, emphasizing causes and consequences of modern conflicts, and the impact of military activities on American society. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences History US: Topical Courses 1

HIST-4153 (3) Emergence of Modern Britain, 1688-1852

Surveys British history from the Revolution of 1688 to the Great Exhibition in 1851. Topics include creation of the United Kingdom, traditional popular culture, birth of a consumer society, the British Enlightenment, the Evangelical Revival, loss of the American colonies, imperial expansion in Asia, war with Revolutionary and Napoleonic France, the Industrial Revolution, and the impact of utilitarianism and political radicalism. Prereq., HIST 1020, 1040, 2103, or 2123. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences History Europe: Specific Countries

HIST-4166 (3) The War in Vietnam and Its Legacy

Traces diplomatic, military, cultural, social, and political history of the war in Vietnam from the beginning of U.S. involvement in 1950 to its aftermath in the 1980s. Credit not granted for this course and HIST 2166.

College of Arts & Sciences History US: Topical Courses 1

HIST-4190 (3) French Connections: Contemporary France and America in Historical Context

This faculty-led Global Seminar, based in Bordeaux, France provides an opportunity to compare French history and contemporary culture, economy, and culture to that of the United States. Lectures in Boulder and Bordeaux are supplemented by interactions with officials, scholars, business leaders, interest groups, and organizations in France. Offered through Study Abroad. IAFS 3500 and HIST 4190 are the same course. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-4205 (3) The Colonial Wars and the Coming of American Independence, 1739--1776

Investigates imperial warfare and its effects during the late colonial period, concentrating on the French and Indian War (1754--1763), the disruption of Anglo-American relations, and the origins of the War of American Independence (1775--1783). Prereq., HIST 1015 or 1035. Same as HIST 5205. Credit not granted for this course and HIST 2215. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Chronological Periods

HIST-4212 (3) Reformation Europe, 1500--1648

Traces the history of Europe from the end of the Hundred Years War through the end of the Thirty Years War. While focusing on the division of Western Christendom into competing and institutionalized factions, the course contextualizes this cultural transformation within the broader socioeconomic and political changes of the period. Prereqs., HIST 1010 or 3020. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History Europe: Modern

HIST-4215 (3) The Revolutionary War and the Making of the American Republic, 1775--1801

Investigates the Revolutionary War and its impact on the creation of American political institutions, as well as its cultural, social, and economic effects, from the Battles of Lexington and Concord through the inauguration of Thomas Jefferson. Prereq., HIST 1015 or 1035. Restricted to sophomores/juniors/seniors. Same as HIST 5215. Credit not granted for this course and HIST 2215.

College of Arts & Sciences History US: Chronological Periods

HIST-4217 (3) The American West in the 19th Century

Explores cultural, social, and political interaction in the American West during the 19th century. Themes include environmental change; conflict and syncretism across race, class, and gender lines; and mythic images, and their relationship to the "Real" West. Prereq., HIST 1015 or 1025 or 1035 or 1045.

College of Arts & Sciences History US: Topical Courses 2

HIST-4218 (3) States and Societies of West Africa to 1900

Examines the history of West Africa from the earliest times to the 19th century. Prereq., junior standing.

College of Arts & Sciences History World Areas: Specific Regions

HIST-4222 (3) War and the European State, 1618--1793

Studies the development of the European states in response to international power struggles in the 17th and 18th centuries (up to the French Revolution). Restricted to sophomores/juniors/seniors. Same as HIST 5222.

College of Arts & Sciences History Europe: Modern

HIST-4223 (3) Revolutionary France

Examines the two questions most fundamental to any scholarly understanding of the French Revolution: What were the political, social, and cultural causes of revolution in 1789? Why did the French Revolution become increasingly radical after 1789? HIST 4223 is restricted to juniors and seniors. HIST 4223 and 5223 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences History Europe: Specific Countries

HIST-4225 (3) The New Nation: America, 1800--1828

History of the United States from George Washington's inauguration to the election of Andrew Jackson. Deals with the political, social, economic, and cultural currents in the life of postrevolutionary America. Prereq., HIST 1015 or 1035. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences History US: Chronological Periods

HIST-4227 (3) The American West in the 20th Century

Explores cultural, social, and political interaction in the American West during the 20th century. Themes include popular culture, state-federal relationships, environmental change, urbanization, immigration, and cultural formation. Prereq., HIST 1015 or 1025 or 1035 or 1045. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences History US: Topical Courses 2

HIST-4232 (3) From Absolutism to Revolution in Europe, 1648--1789

Studies the history of Europe from the end of the Thirty Years War through the outbreak of the French Revolution. Central themes include the establishment of more centralized, increasingly bureaucratic states; global expansion and economic commercialization; and cultural developments such as the Scientific Revolution and the Enlightenment. Prereq., HIST 1020 or 3020. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History Europe: Modern

HIST-4233 (3) History of France since 1815

Examines the ongoing struggle between the revolutionary and counter-revolutionary traditions of France and how it shaped the political history and affected the social, cultural, and intellectual character of the nation from 1815 to the present. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4235 (3) Jacksonian America

Focuses on the social and cultural history of the Jacksonian Era. Issues include the transformation of the market economy, slavery, moral reform, Indian removal, changes in ideas about men's and women's natures and roles, western expansion, and political culture. Prereq. for HIST 4235 is HIST 1015 or 1035. HIST 4235 and 5235 are the same course. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Chronological Periods

HIST-4238 (3) History of Southern Africa

Examines the history of southern Africa from the earliest hunters, herders and farmers through to the present. One of the chief mediums of analysis is the novel. Short background readings and lectures cover southern Africa's history, and class discussions of novels are layered over these basics. Themes of study include: gender, migration, imperialism, religion, disease, resistance, race, ethnicity, and empire, among others. Prereq., HIST 1208. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4248 (3) Africa in the 19th Century

Juxtaposes an increasing process of indigenous state-building with increasing European presence. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4258 (3) Africa under European Colonial Rule

Focuses on the political, economic, and social dimensions of colonialism, as well as African nationalism and decolonization. Prereq., HIST 1208. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4259 (3) African Liberation Struggles: A Comparative History

Highlights the complexity of African decolonization by focusing on the various voices that contend for space as African begins its struggle for liberation. Examines the interrelationship between African colonizers and their colonial administrations, the liberation ideologies emanating from African Diaspora: Pan-Africanism, Garveyism, Negritude and Jamesian socialism, and African nationalist movements and

leaders. Restricted to sophomores/juniors/seniors.

[College of Arts & Sciences](#) [History](#) [World Areas: Comp and General](#)

HIST-4303 (3) Venice and Florence in the Renaissance

Comparative urban study of Florence and Venice from 13th through 16th centuries. Principal subjects are the distinctive economies of the cities, political developments, Renaissance humanism, patronage of the arts, and foreign policy. Prereq., HIST 1010. Formerly HIST 4112. HIST 4303 and 5303 are the same course. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [History](#) [Europe: Modern](#)

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HIST

HIST-4312 (3) 19th Century Europe

Concerned with major social, political, and cultural developments in Europe from circa 1800 to the outbreak of World War I. Special emphasis is placed upon the Napoleonic experience, the rise of modern nationalism, romanticism, Darwinism and its social applications, the Industrial Revolution, imperialism, the emergence of modern ideologies, and the background of World War I. Prereq., HIST 1020 or 1040. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [History](#) [Europe: Modern](#)

HIST-4313 (3) History of Italy

Survey of political, social, and intellectual history of Italy and its people. Taught in English. Same as ITAL 4250. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [History](#) [Europe: Specific Countries](#)

HIST-4314 (3) History of Science from the Ancients to Sir Isaac Newton

History of science from pre-Socratics to Isaac Newton, underscoring major intellectual themes in scientific thought and the historical context in which they developed. Prereq., HIST 1010 or 1030. Restricted to sophomores/juniors/seniors.

[College of Arts & Sciences](#) [History](#) [Europe: Topical](#)

HIST-4315 (3) Civil War and Reconstruction

Describes the forces at work in the antebellum period that led to sectional warfare; social, economic, and political changes effected by the war; the American agony of reconstruction; and the long-range results of that difficult era. Prereq., HIST 1015 or 1035. Prerequisites:

Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Chronological Periods

HIST-4316 (3) The Origins of American Culture, 1600--1830

Traces the development of American culture from its colonial roots to the early decades of the 19th century. Focuses on regional differences in the colonial period, the creation of a new cultural synthesis during the Revolution, and the cultural implications of the Revolutionary legacy. Prereq., HIST 1015 or 1035. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences History US: Topical Courses 1

HIST-4320 (3) The History of the Mediterranean, 1000-1600

Familiarizes students with the Mediterranean ecumene covering concepts such as the Renaissance, the Crusades, traders and travelers, religions and cities. Explores both conflicts (military, confessional) and exchanges (commercial, artistic, scientific) thus helping students think cross culturally, comparatively, and thematically. Emphasizes the Mediterranean contribution to historical developments of western Europe, the Middle East, and North Africa. Prereq., HIST 1010, 1061, 1308, 4061, 4071, 4081, 4091, or 4711. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-4326 (3) Health and Disease in the United States

Examines health care and disease patterns in the United States, from the colonial period through the 1980s. Topics include biomedicine and alternative therapies, changing ideas about health and disease, the patient perspective, and financing health care. Prereq., HIST 1025 or 1045. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Topical Courses 1

HIST-4328 (3) The Modern Middle East, 1600 to the Present

Primarily from 1800 to the present. Attention divided equally between the region's political history and international relations and its patterns of economic, social, and cultural modernization in the main countries. Prereq., HIST 1308. Same as HIST 5328. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History World Areas: Specific Regions

HIST-4329 (3) Islam in the Modern World: Revivalism, Modernism, and Fundamentalism, 1800-2001

Examines the more important movements of reform in Muslim world (including Africa, the Middle East, and India) from the 18th century to the present, and their origins and intellectual import. Due to the trans-regional nature of this broad movement of reform, we will pay particular attention to how these movements related to local political, economic, and social contexts, and how they, in turn, moved across

larger networks of oceanic commerce and trade. The course concludes with extended case studies of Islamic reformism in modern Egypt and India, and their ultimate influence on the politics of contemporary Islamist movements, especially the intellectual position of Ussama B. Ladin. Prereq., HIST 1308. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-4336 (3) 19th Century American Intellectual History

Examines developing intellectual traditions in their social and political contexts. Addresses democracy, religion, transcendentalism, women, race, union or disunion, the Darwinian revolution, and literary realism and naturalism. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-4338 (3) History of Modern Israel

Learn the history of this crossroads of Europe and Asia from the late Ottoman Empire to the present. Main topics include nationalism and colonialism, development of Zionist ideology, development of Palestinian nationalism, establishment of the Jewish settlement (Yishuv) under British rule, the founding of the Jewish nation-state, relations with neighbors, and the aftermath of the 1956, 1967, 1973, and 1982 wars. Prereqs., HIST 1108 or 1308 or JWST 2350. HIST 4338 and JWST 4338 are the same course.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4339 (3) Borderlands of the British Empire

Examines the development of the borderlands of the British empire through imperial expansion, consolidation, and early decolonization. Focuses on the 19th and early 20th centuries. Topics include domination, resistance, and negotiation in areas such as India, Afghanistan, the Palestine Mandate. Aims for students to acquire skills in comparative history and to develop a better understanding of the roots of contemporary conflicts. Prereq., HIST 1020, 1308, 1408, or 2123. Same as HIST 5339. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-4346 (3) 20th Century American Intellectual History

Addresses the impacts of political, social, and economic developments on ideas about democracy, science, race, gender, faith, the supposed mission of America, and the role of intellectuals in society. Same as ETHN 4344. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-4348 (3) Topics in Jewish History

Covers topics in Jewish history from biblical beginnings to present day. Topics vary each semester. Consult the online Schedule Planner

for specific topics. May be repeated up to 6 total credit hours within the degree. Prereqs., HIST 1108 or 1308 or JWST 2350. Same as JWST 4348. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4349 (3) Decolonization of the British Empire

Examines the end of the British Empire. Focuses on connections between imperial territories, such as networks of anticolonial activists and links between British decision makers. Students will acquire research skills and develop a better understanding of the roots of contemporary conflict. Prior coursework in British imperial history and excellent writing skills are required. Prereq., one of the following: HIST 1308, 1408, 4053, 4238, 4258, 4328, 4329, 4538, or 4558. HIST 4349 and 5349 are the same course. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-4378 (3) Jews Under Islam

Examines Jewish communities of the Mediterranean basin and Middle East in modern times. Topics covered include culture and identity of these communities, as well as their encounter with empire, westernization, and nationalism, among other political and social currents. Exploration of images and representations of Sephardi and Eastern Jewries. Sources include memoirs, diaries, films, 19th century press and correspondence, and travelogues. Same as JWST 4378.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4412 (3) Europe, 1890--1945

Examines the origins, character, and significance of the First and Second World Wars for the major nations of Europe during the first half of the 20th century. Prereq., HIST 1020. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Modern

HIST-4413 (3) German History to 1849

Cultural, political, and social history of Germany up to and including the revolutions of 1848. Emphasizes the political history of Prussia and such cultural phenomena as German romanticism. Prereq., HIST 1020. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4414 (3) European Intellectual History, 1750--1870

Explores major developments in European thought from the Enlightenment to Nietzsche. Special attention given to the individuals whose ideas have had the greatest influence on modern intellectual history, e.g., Rousseau, Hegel, Herder, Marx, Kierkegaard, Baudelaire, Darwin, and others. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History Europe: Topical

HIST-4415 (3) United States History, 1877--1917

Examines the social, economic, political, and cultural history of the United States from the end of Reconstruction to the eve of World War I. Topics include the struggles of labor and industry, race and immigration, western and environmental issues, city life and new technologies, feminism and Progressivism, and Indian wars and imperialism. Prereq., HIST 1015 or 1025. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Chronological Periods

HIST-4417 (3) Environmental History of North America

Examines how people of North America, from precolonial times to the present, organized their lives within the ecological systems of the area, how they conceived of their natural world, and how they reshaped their environment according to their human needs. Prereqs., HIST 1015 or 1025 or 1035 or 1045. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Topical Courses 2

HIST-4422 (3) World War I in Europe

Examines the origins of World War I; the military, social, and cultural character of the conflict; and its enduring impact in the post-1918 world. By thinking about the war as both a military undertaking and an experience that affected domestic and global politics, the course will explore why World War I constituted an event of major importance to Europe and the twentieth-century world. Prereq., HIST 1020 or 1040. HIST 4422 is restricted to sophomores/juniors/seniors. HIST 4422 and 5422 are the same course.

College of Arts & Sciences History Europe: Modern

HIST-4423 (3) German History Since 1849

Cultural, political, and social history of Germany since 1849. Emphasizes German unification, Bismarkian foreign policy, the rise of neoromanticism, Weimar politics, and the rise of national socialism. Prereq., HIST 1020. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History Europe: Specific Countries

HIST-4424 (3) European Intellectual History, 1870 to Present

Emphasizes Nietzsche and the youth revolt against middle class society, the literary and artistic avant garde (impressionism to existentialism), the psychoanalytic movement, the European right and left, and post-WWII European thought. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences History Europe: Topical

HIST-4425 (3) United States History, 1917--1945

Examines U.S. history from World War I through World War II. Key themes include: warfare; the rise of the modern state; consumer culture; the shift from conservative politics to the New Deal liberalism; the women's movement; immigration restriction; segregation; the Great Migration, and civil rights; conflicts between secular modernism and religious fundamentalism; and new technologies such as the automobile. Prereq., HIST 1025. Restricted to sophomores/juniors/seniors.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

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HIST

HIST-4433 (3) Nazi Germany

Focuses on the political, social, cultural, and psychological roots of national socialism, with the nature of the national socialist regime, and those politics and actions that came directly out of its challenge to values central to Western civilization. Studies how Nazism came out of this civilization. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

[College of Arts & Sciences](#) [History](#) [Europe: Specific Countries](#)

HIST-4435 (3) United States History, 1945--1973

Examines the History of the United States during the Cold War, with an emphasis on social and cultural issues at home. Also addresses the economic and political evolution of the American people and the nation's role in world affairs. Prereq., HIST 1025. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

HIST-4442 (3) Europe since 1945

Explores Europe from the end of World War II through the present day. Topics include postwar reconstruction; the cold war; anticommunist opposition and new social movements; consumer culture and punk music; the fall of communism; the Yugoslav wars; and European unity. Prereq., HIST 1020 or 1040 or 4412, or PSCI 2012. Restricted to sophomores/juniors/seniors.

[College of Arts & Sciences](#) [History](#) [Europe: Modern](#)

HIST-4444 (3) Topics in Modern European Thought

Explores a selected theme in European thought since the Enlightenment. Topics vary each term. Restricted to

sophomores/juniors/seniors.

College of Arts & Sciences History Europe: Topical

HIST-4445 (3) United States History since 1973

Traces political, diplomatic, economic, and social developments in the United States from 1973 to the present. Prereq., HIST 1025. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Chronological Periods

HIST-4454 (3) Jewish Intellectual History

Takes students on a journey from Medieval Spain to contemporary United States to explore how Jews, living in different societies, have attempted to reshape and interpret central Jewish values and beliefs in accordance with the prevailing ideas of their host societies. Focuses on the historical context of each Jewish society that produced the thinkers and ideas considered in this course. Prereq., HIST 1010 or 1020, or HIST/JWST 1108, or HEBR/JWST 2350. JWST 4454 and HIST 4454 are the same course.

College of Arts & Sciences History Europe: Topical

HIST-4511 (3) Europe in the Dark Ages (400--1000 A.D.)

Examines the history of Europe from the fall of the Roman Empire to the turn of the first millennium. Treats social, political, and religious transformations in the barbarian kingdoms, and considers the persistence of Roman institutions and culture and the impact of Christianity in northern Europe. Prereq., HIST 1010, 1030, 2170 or 2543. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History Europe: Ancient and Medieval

HIST-4516 (3) U.S. Society in the 19th Century

Concerned with the American family and community in the changing social environments of the 19th century. Examines families of different ethnic and class backgrounds, observing how they are changed by new economic conditions, reform, or new political institutions. Prereq., HIST 1015 or 1035. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History US: Topical Courses 1

HIST-4521 (3) Europe in the High Middle Ages (1000--1400 A.D.)

Examines the history of Europe from the emergence of feudal institutions to the rise of nation states, with specific attention to social, intellectual and religious change, the role of law and ritual, the crusades and European expansion, and urban growth and identity in the West. Prereq., HIST 1010, 1030, 2170, or 2543. Restricted to sophomores/juniors/seniors.

HIST-4526 (3) U.S. Society in the 20th Century

Primarily concerned with family roles and community values, and how they are altered by economic, demographic, and intellectual changes during the 20th century. Some of the more important themes are acculturation, the idea of success, reform, and the changing structure of opportunity. Prereq., HIST 1025 or 1045. Restricted to sophomores/juniors/seniors.

HIST-4527 (3) Mexican-American History since 1848

Examines Mexican-origins people in the United States from the 19th century through the present. Focuses on Mexican-American history as both an integral part of American history and as a unique subject of historical investigation. Using primary and secondary sources, students will examine how Mexicans and Mexican-Americans have negotiated, influenced, and responded to political, social, cultural, and economic circumstances in the U.S. Prereq., HIST 1025. Recommended prereq., HIST 1015. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

HIST-4528 (3) Islam in South and Southeast Asia (1000 to the Present)

Examines the history of Muslim societies in South and Southeast Asia from 1000 to the present. Focuses on themes such as the rise of Islamic empires in South Asia, Sufism, trade and the spread of Islam in Southeast Asia, the rise or Muslim nationalism and religious fundamentalism, and the impact of modernization and globalization on Muslims of the region. Recommended prereq., six hours of history credit. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

HIST-4538 (3) History of Modern India

Examines the history of India from the British conquest of India in the late 18th century to independence in 1947. Emphasizes the impact of British rule on the political, economic, and social development of modern India. Recommended prereq., at least 6 hours of history credit. Same as HIST 5538. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

HIST-4544 (3) History of Yiddish Culture

Jews have produced culture in Yiddish, the vernacular language of Eastern European Jewry, for 1000 years and the language continues to shape Jewish culture today. In this course, we will look at the literature, film, theater, music, art, sound, and laughter that defined the culture of Eastern European Jewry and, in the 20th century, Jews around the world. Recommended prereqs., HIST 1108 or HEBR 2350. Same as JWST 4544.

College of Arts & Sciences | History | Europe: Topical

HIST-4546 (3) Popular Culture in the Modern United States

Traces the history of cultural expression in the United States since the late nineteenth century. From art, fiction, and music to the movies, amusement parks, shopping, and sports, popular culture offers clues to decipher shifting patterns of consumption, globalization, race, gender, politics, technology, and media. Includes instruction and practice interpreting cultural materials in historical context. Prereq., HIST 1025. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-4548 (3) Women in Modern India

Examines the history of women and gender in India from the late eighteenth century to the present. Explores topics such as the changing legal status of women in the colonial and postcolonial period, marriage, domesticity and patriarchy, and women's education and participation in anti-colonial and postcolonial politics, women, work, and the environment, violence against women, and women and globalization. Prereq., any 1000 level HIST course. Recommended prereq., HIST 1408. Same as HIST 5548.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4556 (3) America through Baseball

Baseball serves as a window to view the American experience. Covers U.S. history since 1830, addressing the major topics that reflect on American society, such as professionalization, labor management conflict, race, gender, culture, politics, economics, and diplomacy. Prereq., HIST 1025 or 1045. Recommended prereq., HIST 1015 or 1035. Restricted to sophomores/juniors/seniors. Credit not granted for this course and HIST 2516.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-4558 (3) Modern Indian Intellectual History

Focuses on the nature and evolution of thought in modern India in the light of the encounter between pre-modern Indian and modern Western intellectual traditions in colonial and postcolonial India. Examines themes such as orientalism, nationalism, Hindu and Muslim nationalism, humanism, non-violence, and postcolonialism. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4614 (3) Women and Society in Industrial Europe

Examines impact of industrialization and related social change on women in modern European history. Topics include work, family, sexuality, and women in movements for social and political change. Prereq., HIST 1020 or 1040. Restricted to

sophomores/juniors/seniors. Same as WMST 4614.

College of Arts & Sciences History Europe: Topical

HIST-4616 (3) History of Women in the United States to 1890

Examines female experience in the United States from 17th century European colonization to 19th century settlement of the frontier. Emphasizes comparison between classes, regions, and racial/ethnic groups. Women's writings provide the basis for discussions of private and public roles, definitions of femininity, interpersonal relationships, and struggles for survival and self-expression. Prereq., HIST 1025. Restricted to sophomores/juniors/seniors. HIST 4616 and 5616 are the same course. Also same as WMST 4616. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences History US: Topical Courses 1

HIST-4617 (3) Native North American History I: Human Settlement to 1815

Explores the establishment and development of human societies in North America prior to 1492; the varied experiences of contact; the crises, opportunities, and transformations that attended colonialism; Indians and the inter-imperial contests of the eighteenth century; and the struggles of native peoples confronting the newly-independent United States. Prereq., HIST 1015 or 1035. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences History US: Topical Courses 2

HIST-4618 (3) Traditional China

Examines major traditions in philosophy, art, politics, society, and economy of China during the premodern period. Prereq., HIST 1608 or EALC 1011. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History World Areas: Specific Regions

HIST-4619 (3) Women in Asian History

Considers major issues in the history of Asian women in the 18th, 19th, and 20th centuries. Focuses on gender roles in Asian family, state, and religious systems. Same as WMST 4619 and HIST 5619. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History World Areas: Comp and General

HIST-4623 (3) History of Eastern Europe Since 1914

Examines the struggle of nations of eastern Europe to assert their independence, from break-up of the imperial system at the end of World War I, through the Soviet bloc that emerged after World War II, to the establishment of democratic governments after the 1989 revolutions. Prereq., HIST 1020 or 1040 or PSCI 2012. Restricted to sophomores, juniors or seniors. Prerequisites: Restricted to students

with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [History](#) [Europe: Specific Countries](#)

HIST-4626 (3) History of Women in the United States since 1890

Examines what it means to be female in 20th century United States, emphasizing comparison between classes and racial/ethnic groups. Women's writings serve as the basis for discussions of private and public roles, definitions of womanhood, interpersonal relationships, and struggles for autonomy and equality. Restricted to sophomores, juniors or seniors.. Same as WMST 4626. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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HIST

HIST-4627 (3) Native North American History II: 1815 to Present

Explores the longevity and continuity of human history in North America by discussing pre-European social and cultural developments. By examining ways in which Indian societies west of the Mississippi River responded to Euro-Americans, the Indians' role in western North American history is demonstrated. Restricted to sophomores/juniors/seniors.

[College of Arts & Sciences](#) [History](#) [US: Topical Courses 2](#)

HIST-4628 (3) Modern China

Examines China from 1750 to 1949. Focuses on such issues as the influence of imperialism, the emergence of nationalism, and the meaning of revolution. Same as HIST 5628. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

HIST-4636 (3) Lesbian and Gay History: Culture, Politics, and Social Change in the United States

Considers current theoretical approaches to the history of sexuality and traces the changing meaning of same-sex sexuality in the United States through investigation of lesbian/gay identity formation, community development, politics, and queer cultural resistance. Prereq., HIST 1015 or 1025 or 1035 or 1045 or WMST 2000. Same as HIST 5636 and WMST 4636.

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HIST-4638 (3) Contemporary China

Examines the history of the People's Republic of China from 1949 to the present. Focuses on such issues as the nature of Maoism, foreign policy, political campaigns such as the Cultural Revolution and the Democracy Movement, and recent economic developmental efforts. HIST 4638 and HIST 5638 are the same course. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4640 (3) Women, Gender and War

Study of how women experience war, and how the structure, practice and memory of war, and the rights and obligations of military service structure gender (masculinity and femininity) and are structured by the gender system. Prereq., HIST 1020 or 1025 or 1040 or 1045, or WMST 2000. Same as WMST 4640. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4643 (3) Poland since the 16th Century: Democracy and Nation

Traces themes of democracy and nationalism in Polish history from the "Noble Republic" of the early modern era, through the struggles with fascism and communism in the 20th century, to Poland's current position on the eastern edge of Western Europe. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4648 (3) History of Modern Chinese Intellectual Thought

Examines major intellectual movements in modern China from Ch'ing neo-Confucianism, empiricism, and nationalism to Chinese communism. Prereq., HIST 1608.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4658 (3) China and Islam from the 7th Century to the 20th Century

This course traces how "Muslims in China" transformed themselves into "Chinese Muslims" while at once accommodating and conflicting with Chinese states and people throughout history until the present time. Recommended prereq., HIST 1608. HIST 4658 and 5658 are the same course. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4688 (3) Beijing: Window on Modern China

Learn about modern Chinese history, emphasizing Beijing's important role. Think critically about ways the past is made use of in the

present; how memorials capture and present meanings; how to view museums with a critical eye; and about the way Beijing works and exudes power as one of the most important capital cities in the world. Offered through Study Abroad.

College of Arts & Sciences History World Areas: Specific Regions

HIST-4711 (3) The Medieval Crusades: Holy War and Its History, 1095--1400

Studies the innovation, impact and meaning of holy war and the expansion of Christendom during the High Middle Ages. Topics include the definition of crusade and crusaders, religious persecution and tolerance, the expansion of European modes of government, war memory, colonization and its aftermath, the meaning of the Holy Land and the home front. Prereq., HIST 1010 or 3020. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences History Europe: Ancient and Medieval

HIST-4713 (3) History of Russia through the 17th Century

Introduces the history and culture of Russia from the 9th to the 17th century. Emphasizes selected topics in social, economic, religious, and cultural history, including the formation of the Russian state conversion to Orthodox Christianity, the Mongol invasion, and the reign of Ivan the Terrible. Restricted to juniors and seniors.

College of Arts & Sciences History Europe: Specific Countries

HIST-4718 (3) Ancient, Classical, and Medieval Japanese History

Begins with the prehistoric and protohistoric periods. Explores the development of Japan's classical age and traces the rise and attenuation of an elite warrior government. Restricted to juniors and seniors.

College of Arts & Sciences History World Areas: Specific Regions

HIST-4723 (3) Imperial Russia

Surveys major cultural, social, and economic changes from the reign of Peter the Great through World War I. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences History Europe: Specific Countries

HIST-4726 (3) U.S. Immigration History

Focuses on economic, social, and cultural history of immigration, return migration, and permanent settlement in the U.S. during the 19th and 20th centuries. Examines the ways in which race, class, ethnicity, gender, and sexuality shape social relations. Prereq., HIST 1015 or 1025 or 1035 or 1045. Restricted to junior/senior HIST or ETHN majors.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-4728 (3) Modern Japanese History

Begins with early modern Japan, proceeds through the era of rapid modernization after the Meiji Restoration in the mid-19th century, and concludes with Japan's gradual descent into prolonged war, first with China and then in the Pacific. Restricted to juniors and seniors. HIST 4728 and 5728 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4733 (3) The Russian Revolution and the Soviet Regime

Covers in detail the significant social, economic, and political events of Soviet Russia from the February Revolution of 1917 to the present. Prereq., junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4738 (3) History of Early Modern Japan (1590-1868)

Covers the history of early modern Japan (1590-1868). Explores the political, social, cultural, and economic context of Japan's history from the era of Warring States through the rise and fall of the Tokugawa military government (Shogunate). Restricted to juniors and seniors. Same as HIST 5738. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-4761 (3) Roman Law

Same as HIST 5761 and CLAS 4761.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-4803 (3) Special Topics in European History

Covers specialized topics in early modern and modern European history, usually focusing on one country. May be repeated up to 6 total credit hours. Prereq., HIST 1010, 1020, 1030, or 1040. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-4820 (3) Human Rights: Historical Perspectives

Examines the history of modern ideas of human rights. Focuses on themes such as the universalism/cultural relativism debate, colonialism, nationalism, refugees and stateless peoples, the United Nations and humanitarianism, ethnic genocide in Rwanda, and human rights abuses by the Taliban regime in Afghanistan. Prereq., 6 hours of HIST credit. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-4827 (3) Modern U.S. Jewish History

Explores the experience of Jews in the United States from the 1880's when the great migration of Jews from Eastern Europe began, through the twentieth century. Students will explore the changing ways in which Jews adapted to life in the U.S., constructed American Jewish identities, and helped to participate in the construction of the United States as a nation. Recommended prereqs., HIST 1025 or HIST/JWST 1108 or HEBR/JWST 2350. JWST 4827 and HIST 4827 are the same course.

College of Arts & Sciences | History | US: Topical Courses 2

HIST-4930 (1-3) History Internship

Matches selected students with supervised internships in professional archives research libraries, historical associations, and special projects. Interns apply their academic area specialty to their work in the field. Internships have a work and academic (reading and writing) component. May be repeated up to 6 total credit hours. Recommended prereq., completion of lower-level HIST course work (HIST 1015/1025, etc.). May be taken pass/fail only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) History (HIST) majors only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-5000 (3) Historical Methods: Introduction to the Professional Study of History

Introduces purposes, materials, and techniques of historical scholarship. Theory, practice, and criticism. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-5012 (3) Graduate Colloquium in European History

Acquaints students with key works in the literature of European history, and addresses matters of method and interpretation. May be repeated up to 6 total credit hours. Prereq., admission to the graduate program in history. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | Europe: Modern

HIST-5014 (3) Law and Legal History in Early Modern Europe

Explores use of legal records as a source for writing not only political and economic history, but social and cultural history as well. Traces the historiographic and methodological trajectory of legal history in early modern European countries. Prereq., graduate standing.

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HIST

HIST-5053 (3) Britain and the Empire, 1688--1964

Same as HIST 4053.

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HIST-5061 (3) Twilight of Antiquity

Same as HIST 4061 and CLAS 5061.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

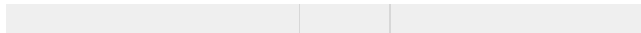
HIST-5064 (3) Early Modern Spain

Surveys the history of the Iberian Peninsula from the late medieval period through early modern period. Explores the thought, art, politics, and socio-economic milieu of Spain during the Golden Age. Topics include attitudes toward minorities, the Inquisition, the establishment of a colonial empire, rituals, court culture and architecture, religious conflicts, and literary production. Prereq for HIST 4064., HIST 1010 or 1030. Same as HIST 5064. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [History](#) [Europe: Topical](#)

HIST-5106 (3) Graduate Colloquium in United States History

Students gain an acquaintance with major works in the field and discuss current issues of interpretation and methodology. May be repeated up to 9 total credit hours. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.



HIST-5119 (3) Latin American Revolutions

Same as HIST 4119.

HIST-5128 (3) The Emergence of Modern Mexico

Same as HIST 4128.

HIST-5129 (3) Colloquium in Modern Asian History

Introduces major topics and themes in Asian history. Analyzes readings relating to topics such as imperialism, cultural agency, gender, race, nationalism, decolonization, and revolution. May be repeatable for up to 6 total credits hours provided the topics vary. Prerequisites: Restricted to Graduate Students only.

HIST-5205 (3) The Colonial Wars and the Coming of American Independence, 1739--1776

Prereq., graduate standing. Same as HIST 4205. Prerequisites: Restricted to Graduate Students only.

HIST-5215 (3) The Revolutionary War and the Making of the American Republic, 1775--1801

Prereq., graduate standing. Same as HIST 4215.

HIST-5222 (3) War and the European State, 1618-1793

Same as HIST 4222. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences History Europe: Modern

HIST-5223 (3) Revolutionary France

Examines the two questions most fundamental to any scholarly understanding of the French Revolution: What were the political, social, and cultural causes of revolution in 1789? Why did the French Revolution become increasingly radical after 1789? HIST 4223 is restricted to juniors and seniors. HIST 4223 and 5223 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences History Europe: Specific Countries

HIST-5235 (3) Jacksonian America

Focuses on the social and cultural history of the Jacksonian Era. Issues include the transformation of the market economy, slavery, moral reform, Indian removal, changes in ideas about men's and women's natures and roles, western expansion, and political culture. Prereq. for HIST 4235 is HIST 1015 or 1035. HIST 4235 and 5235 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences History US: Chronological Periods

HIST-5248 (3) History of Anglo-American Criminal Justice

Explores the social, cultural, and legal history of Anglo-American criminal justice from the 17th to the 20th centuries. Also examines tensions between various methods that historians employ to study crime and law.

College of Arts & Sciences History World Areas: Specific Regions

HIST-5303 (3) Venice and Florence in the Renaissance

Comparative urban study of Florence and Venice from 13th through 16th centuries. Principal subjects are the distinctive economies of the cities, political developments, Renaissance humanism, patronage of the arts, and foreign policy. Prereq., HIST 1010. Formerly HIST 4112. HIST 4303 and 5303 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences History Europe: Modern

HIST-5328 (3) The Modern Middle East, 1600 to the Present

Prereq., graduate standing. Same as HIST 4328. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences History World Areas: Specific Regions

HIST-5339 (3) Borderlands of the British Empire

Prereq., graduate standing. Same as HIST 4339.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-5349 (3) Decolonization of the British Empire

Examines the end of the British Empire. Focuses on connections between imperial territories, such as networks of anticolonial activists and links between British decision makers. Students will acquire research skills and develop a better understanding of the roots of contemporary conflict. Prior coursework in British imperial history and excellent writing skills are required. Prereq., one of the following: HIST 1308, 1408, 4053, 4238, 4258, 4328, 4329, 4538, or 4558. HIST 4349 and 5349 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-5422 (3) World War I in Europe

Examines the origins of World War I; the military, social, and cultural character of the conflict; and its enduring impact in the post-1918 world. By thinking about the war as both a military undertaking and an experience that affected domestic and global politics, the course will explore why World War I constituted an event of major importance to Europe and the twentieth-century world. Prereq., HIST 1020 or 1040. HIST 4422 is restricted to sophomores/juniors/seniors. HIST 4422 and 5422 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | Europe: Modern

HIST-5538 (3) History of Modern India

Same as HIST 4538.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-5548 (3) Women in Modern India

Same as HIST 4548.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-5616 (3) History of Women in the United States to 1890

Examines female experience in the United States from 17th century European colonization to 19th century settlement of the frontier. Emphasizes comparison between classes, regions, and racial/ethnic groups. Women's writings provide the basis for discussions of private and public roles, definitions of femininity, interpersonal relationships, and struggles for survival and self-expression. Prereq., HIST 1025. Restricted to sophomores/juniors/seniors. HIST 4616 and 5616 are the same course. Also same as WMST 4616. Prerequisites:

Restricted to Graduate Students only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-5619 (3) Women in Asian History

Same as HIST 4619. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-5628 (3) Modern China

Prereq., graduate standing. Same as HIST 4628.

College of Arts & Sciences | History | World Areas: Specific Regions

HIST-5636 (3) Lesbian and Gay History: Culture, Politics, and Social Change in the United States

Restricted to graduate students. Same as HIST 4636 and WMST 4636.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-5638 (3) Contemporary China

Examines the history of the People's Republic of China from 1949 to the present. Focuses on such issues as the nature of Maoism, foreign policy, political campaigns such as the Cultural Revolution and the Democracy Movement, and recent economic developmental efforts. HIST 4638 and HIST 5638 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | World Areas: Specific Regions

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HIST

HIST-5658 (3) China and Islam from the 7th Century to the 20th Century

This course traces how "Muslims in China" transformed themselves into "Chinese Muslims" while at once accommodating and conflicting with Chinese states and people throughout history until the present time. Recommended prereq., HIST 1608. HIST 4658 and 5658 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

HIST-5728 (3) Modern Japanese History

Begins with early modern Japan, proceeds through the era of rapid modernization after the Meiji Restoration in the mid-19th century, and concludes with Japan's gradual descent into prolonged war, first with China and then in the Pacific. Restricted to juniors and seniors. HIST 4728 and 5728 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

HIST-5738 (3) History of Early Modern Japan (1590--1868)

Same as HIST 4738. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [History](#) [World Areas: Specific Regions](#)

HIST-5761 (3) Roman Law

Same as HIST 4761 and CLAS 5761.

[College of Arts & Sciences](#) [History](#) [Europe: Ancient and Medieval](#)

HIST-5840 (1-3) Independent Study

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-5841 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-5842 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Modern

HIST-5843 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Specific Countries

HIST-5845 (1-3) Independent Study

College of Arts & Sciences | History | US: Chronological Periods

HIST-5846 (1-3) Independent Study

College of Arts & Sciences | History | US: Topical Courses 1

HIST-5847 (1-3) Independent Study

College of Arts & Sciences | History | US: Topical Courses 2

HIST-5848 (1-3) Independent Study

College of Arts & Sciences History World Areas: Specific Regions

HIST-5849 (1-3) Independent Study

College of Arts & Sciences History World Areas: Comp and General

HIST-6012 (3) Readings in Modern European History

Prerequisites: Restricted to History graduate students only.

College of Arts & Sciences History Europe: Modern

HIST-6019 (3) Readings in World History

Prereq., graduate standing.

College of Arts & Sciences History World Areas: Comp and General

HIST-6020 (3) Modern Empires: Readings in Imperial History

Introduces major topics and themes in imperial history. Reviews central theories of modern colonial empire, ranging from economic and political motivations for expansion, to the cultural and social impact of empire, to post-colonialism.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-6028 (3) Readings in Modern Latin American History

Examines major themes and topics in the social, political and economic history of Latin America. Possible topics include nationalism and state-building, neocolonialism, revolution and reaction, race, and gender. Recommended prereq., HIST 5128 or 5118. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences History World Areas: Specific Regions

HIST-6030 (3) Readings: Frontiers and Borderlands in the Americas

Introduces classic and recent scholarship on frontiers and borderlands in the Americas. Chronological focus will vary by semester, from contact through twentieth century. A hemispheric approach encourages comparative insights about topics such as colonialism and ecological change, war and violence, indigenous resistance, acculturation, ethnogenesis, and evolving ideas about race, gender, and identity at the margins of empires and nation-states. Restricted to graduate students.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-6113 (3) Readings in English History to 1714

College of Arts & Sciences | History | Europe: Specific Countries

HIST-6115 (3) Readings in American Colonial History

Prereq., graduate standing.

College of Arts & Sciences | History | US: Chronological Periods

HIST-6116 (3) Readings in American Diplomatic History

Prereq., undergraduate work in American history.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-6122 (3) Readings in 16th Century Europe

College of Arts & Sciences | History | Europe: Modern

HIST-6123 (3) Readings in English History Since 1688

College of Arts & Sciences | History | Europe: Specific Countries

HIST-6146 (3) Readings in U.S. Political History

Explores the history of politics in the U.S., with an emphasis on the period since 1865. Key themes include the relations between state and society, the origins and nature of social movements, and the role played by political culture. Prereq., graduate standing.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-6150 (3) Critical and Theoretical Issues in Museums

Investigates key problems facing museum institutions and studies the staging and representation of historical knowledge, the ethics of collecting and display, the changing nature and uses of historical evidence, and relations between curatorial practice, collecting, and field work. Critically examines different approaches to museums and museology in various disciplines, both past and present. Prereq., MUSM 5011 or instructor consent. Same as MUSM 6150, ARTH 6150, and ANTH 6150.

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HIST-6212 (3) Readings in 17th Century Europe

College of Arts & Sciences | History | Europe: Modern

HIST-6317 (3) Readings in the American West

Prereq., graduate standing.

College of Arts & Sciences | History | US: Topical Courses 2

HIST-6326 (3) Readings in United States Intellectual History

Examines the history of ideas and the social history of intellectuals in American society during the 19th and 20th centuries. Stresses social and political dimensions and the changing cultural and institutional contexts of intellectual discourse. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to History graduate students only.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-6329 (3) Readings in Comparative Ethnohistory

Prereq., graduate standing.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-6330 (3) History of Sex and Sexuality

Examines major historical trends in the study of meanings and practices of sex and sexuality. Focuses on emergence and negotiation of sexual matters in circumstances where sex and identity were not coterminous. Restricted to graduate students.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-6349 (3) Decolonization in Transnational Perspective: The End of the British Empire in S Asia & Middle East

Examines Britain's withdrawal from South Asia and the Palestine mandate. Topics include collaboration, anticolonial resistance, Indian and Palestinian nationalisms, zionism, transcolonial connections, counter insurgency, and partition. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | World Areas: Comp and General

HIST-6413 (3) Readings in Modern German History

Prereq., general background in European history.

College of Arts & Sciences | History | Europe: Specific Countries

HIST-6414 (3) Readings in European Intellectual History

Prereq., graduate standing or instructor consent.

College of Arts & Sciences | History | Europe: Topical

HIST-6417 (3) Readings in Environmental History

Offers historical perspective on the complex and interdependent relationship between human social and cultural institutions and the natural world. Considers interdisciplinary methodologies incorporating history, biology, geography, law, and other disciplines.

College of Arts & Sciences | History | US: Topical Courses 2

HIST-6420 (3) Memory and History in Transnational Perspective

Engages in debates about historical methods and how the past is represented. Central topics will include memory and the forces of nationalism and war; commemoration and monuments; the role of memory in the construction of race and ethnicity; personal past and cultural remembrance; and the relationships between academic, public, and popular histories. Prerequisites: Restricted to Graduate

Students only.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-6427 (3) Readings in African American History

Introduces classic and recent scholarship, and critical issues in African American history, from slavery to the present. Prereq., graduate standing.

College of Arts & Sciences History US: Topical Courses 2

HIST-6500 (3) Comparative Labor History

Examines major issues in labor history through comparative study of Europe, the United States, and Latin America. Issues to be studied include working-class formation, the development of worker identities, and workers and the state.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-6511 (3) Readings in Medieval History

Prereq., instructor consent.

College of Arts & Sciences History Europe: Ancient and Medieval

HIST-6526 (3) Readings in U.S. Social History, 1880--1940

Prereq., graduate standing or instructor consent.

College of Arts & Sciences History US: Topical Courses 1

HIST-6536 (3) Readings in 20th Century U.S. Labor History

Prereq., graduate standing.

College of Arts & Sciences History US: Topical Courses 1

HIST-6546 (3) Readings in Cultural History and Theory

Introduces standard works and recent developments in cultural history. Explores structuralism and post-structuralism, semiotics, social construction, relativism, hegemony, and the idea of postmodernity in the uses of culture as an historical category. Prereq., graduate standing or instructor consent.

College of Arts & Sciences History US: Topical Courses 1

HIST-6556 (3) Readings in U.S. History, the Depression and World War II

May be repeated up to 6 total credit hours.

College of Arts & Sciences History US: Topical Courses 1

HIST-6616 (3) Readings in the History of American Women

College of Arts & Sciences History US: Topical Courses 1

HIST-6628 (3) Reading in South Asian History

Introduces major topics and themes in South Asian history. Reviews central theories relating to topics such as religion, nationalism, law, gender, colonialism, and literature.

College of Arts & Sciences History World Areas: Specific Regions

HIST-6756 (3) Race and Nationalism

Focuses on analytical, ideological, cultural, and political tensions between understandings of race and nationalism. Readings are interdisciplinary, but students identify and analyze tensions between race and nationalism at particular historical moments. Prereq., graduate standing or instructor consent.

College of Arts & Sciences History US: Topical Courses 1

HIST-6940 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences History Methodo, Comparative, Global

HIST-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-7011 (3) Seminar in Ancient History

Examines topics in ancient Greek and Roman history at an advanced seminar level. May be repeated up to 6 total credit hours. Same as CLAS 7011.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-7052 (3) Seminar: Modern European History

College of Arts & Sciences | History | Europe: Modern

HIST-7110 (3) Research Seminar in Atlantic History 1500-1800

Discusses the concepts and methods that inform the field of Atlantic history in the early modern era. Readings and research papers explore the interactions of peoples from Europe, Africa, and the Americas, including the exchange of ideas, peoples, commodities, and cultural practices. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | History | World Areas: Comp and General

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HIST

[HIST-7119 \(3\) Graduate Research Seminar in Asian History](#)

Prepares students for research in historical documents in Asian languages in order to write a substantial original research paper based on primary and secondary source materials. Prereq., graduate standing and background in Asian history.

[College of Arts & Sciences](#) [History](#) [World Areas: Comp and General](#)

[HIST-7153 \(3\) Seminar: English History, 800--1688](#)

Prereq., background in English or European history.

[College of Arts & Sciences](#) [History](#) [Europe: Specific Countries](#)

[HIST-7155 \(3\) Seminar: Early American History](#)

[College of Arts & Sciences](#) [History](#) [US: Chronological Periods](#)

[HIST-7156 \(3\) Seminar: American Diplomatic History](#)

Prereq., graduate standing.

[College of Arts & Sciences](#) [History](#) [US: Topical Courses 1](#)

HIST-7183 (3) Interdisciplinary Seminar in British Studies

Introduces students to the methodologies and texts/sources of current work in English literature, history, theatre, art history, and social sciences. Students write a paper based upon the University of Colorado's distinctive research collections in British studies. Prereq., graduate standing. Same as ENGL 7889.

College of Arts & Sciences History Europe: Specific Countries

HIST-7214 (3) Seminar: Economic Development

Prereq., graduate standing. Same as ECON 8764.

College of Arts & Sciences History Europe: Topical

HIST-7252 (3) Seminar: Early Modern Europe, 16th to 18th Centuries

College of Arts & Sciences History Europe: Modern

HIST-7257 (3) Seminar: History of the American Frontier

Prereq., graduate standing. Prerequisites: Restricted to History graduate students only.

College of Arts & Sciences History US: Topical Courses 2

HIST-7326 (3) Seminar: U.S. Intellectual History

Prereq., graduate standing.

College of Arts & Sciences History US: Topical Courses 1

HIST-7415 (3) Graduate Seminar in Modern United States History

Introduces students to various research approaches and methods in modern U.S. historiography and requires them to produce a substantial and original research paper using both primary and secondary sources. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences History US: Chronological Periods

HIST-7424 (3) Research Methods in Medieval/Early Modern European History

Introduces students to research skills needed to work with historical manuscripts. Students learn to read late medieval/early modern handwriting, explore CU's microfilmed collections of manuscripts, and write a research paper based on the manuscript materials. Prereq., graduate standing or instructor consent.

College of Arts & Sciences History Europe: Topical

HIST-7464 (3) Seminar: European Intellectual History

College of Arts & Sciences History Europe: Topical

HIST-7485 (3) Seminar: United States History, 1948-Present

College of Arts & Sciences History US: Chronological Periods

HIST-7551 (3) Seminar: Medieval History

College of Arts & Sciences History Europe: Ancient and Medieval

HIST-7556 (3) Seminar: American Society and Thought

Prereq., graduate standing.

College of Arts & Sciences History US: Topical Courses 1

HIST-7566 (3) Research Seminar in Labor History

Explores various issues in U.S. labor history through readings and research projects. Most of the readings are taken from writings on U.S. labor history. Special attention is given to women, immigration, and regional patterns. Research skills emphasized. Prereq., HIST 6536 or instructor consent.

College of Arts & Sciences History US: Topical Courses 1

HIST-7581 (3) Latin Paleography

Discusses the development of formal scripts from the late Roman Empire to the 15th century. Provides practice in identification, transliteration, and translation of medieval manuscripts. Prereqs., graduate standing and reading knowledge of Latin.

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-7656 (3) Seminar: Women's History

Prereq., one 6000-level readings course in women's history.

College of Arts & Sciences | History | US: Topical Courses 1

HIST-7840 (1-3) Independent Study

College of Arts & Sciences | History | Methodo, Comparative, Global

HIST-7841 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Ancient and Medieval

HIST-7842 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Modern

HIST-7843 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Specific Countries

HIST-7844 (1-3) Independent Study

College of Arts & Sciences | History | Europe: Topical

HIST-7845 (1-3) Independent Study.

HIST-7846 (1-3) Independent Study



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HIST-7849 (1-3) Independent Study

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HIST-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#)
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HONR

HONR-1001 (1) Honors Coseminar

Honors coseminars are designed to combine an honors seminar experience with the shared experience of an organized lecture course. Designed typically for 15 students, coseminars are taken for an additional 1 credit hour. Coseminars provide honors students with an opportunity to extend their common experience in the course lecture into an enriched interactive, critical thinking opportunity. May be repeated up to 4 total credit hours. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

[College of Arts & Sciences](#) [Honors](#)

HONR-1810 (3) Honors Diversity Seminar

Students will develop an appreciation for, and experience with, diverse perspectives. In particular this includes: racial/ethnic, gender, sexual orientation, and class perspectives, for constructing knowledge as they proceed through their undergraduate studies. Three themes provide the framework for the course: education for the next century, the 21st century citizen, and the modern individual in a diverse society. Topics explored include privilege, stigmatization, targeted and nontargeted grouping, and oppression. Engaging in independent research and experiential, empathetic experiences is required. Approved for arts and sciences core curriculum: human diversity. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

[College of Arts & Sciences](#) [Honors](#)

HONR-2250 (3) Ethics of Ambition

Through selected readings in classical literature on ethics and through more contemporary readings and films, examines critical ethical issues relating to the competition of ambitions and the alternative styles of choosing between courses of action in a dangerous world. Uses biographies of those whose lives illustrate both the complexities of the struggles and the profundity of possibilities. Considers the unconscious metaphors of national visions and ambitions, the competing ethics of ends and means, the conflicting ambitions in a pluralistic society, and the transcendent ambitions of visionaries. Same as FARR 2660. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

HONR-2251 (3) Introduction to the Bible

Studies the major works, figures, and genres of the Bible and attempts to understand what they meant to their own time and why they became so important to Western civilization and contemporary America. Approved for arts and sciences core curriculum: historical content. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

HONR-2500 (3) Open Topics

Variety of new courses at the 2000 level. See honors program announcements for specific contents. May be repeated up to 6 total credit hours. Prereq., GPA 3.30 or higher. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

HONR-2610 (1) Leadership Practicum: Kittredge Honors Program Flock Leaders

Required for students who are selected as flock leaders for the Kittredge honors residence program. Teaches skills and techniques to enable them to lead a small group in the unique environment of a residential honors program. May be repeated up to 6 total credit hours. Prereq., consent of Kittredge honors program associate director.

HONR-2860 (3) The Figure of Socrates

Investigates why Socrates intrigued great writers like Aristophanes, Plato, Xenophon, and Aristotle and why, through his life and execution by the Athenian democracy, he still influences Western ethics, politics, and education and is central to cultural literacy. Approved for arts and sciences core curriculum: literature and the arts.

HONR-3001 (1) Honors Coseminar

Honors coseminars are designed to combine an honors seminar experience with the shared experience of a lecture course. Designed typically for 10--15 students, coseminars are taken either for an additional 1 credit hour or in place of a recitation. Coseminars are designed to provide honors students with an opportunity to extend their common experience in the course lecture into an enriched interactive, critical thinking opportunity.

HONR-3004 (3) Women in Education

Honors women in education and their legacy. Introduces women educators, beginning in the late 19th century, whose significant theories of education and work inteaching have had an impact on all of our lives, in history, and in society. Explores the educational theories and methods of several representative women educators and analyzes them through an investigation of their professional and personal lives. Same as WMST 3004. Approved for arts and sciences core curriculum: human diversity.

HONR-3056 (3) Experience of Learning

Major historical, psychological, philosophical and personal perspectives on education in general and university education in particular will be developed. Participants will be encouraged to consider how the issues discussed and the ideas developed in the seminar bear on the choices they face in planning their own educations. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

HONR-3220 (3) Advanced Honors Writing Workshop

Intensive practice of expository writing skills, particularly argumentation in longer forms. Course includes extensive practice in researching secondary sources, synthesizing large bodies of information, structuring cogent arguments for diverse sources, etc. Approved for GT-CO3. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

HONR-3270 (3) Journey Motif in Women's Literature

Investigates the application of the theme of the journey to developmental narratives by analyzing modern British and American writings by women. Applies methods from psychology, feminist studies, gay studies, cultural studies to concepts of development, regression, progress, escape. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

HONR-3550 (1-6) Open Topics

Investigates special topics in humanities, social sciences, and natural sciences. Topics vary from semester to semester and from course to course. See Honors program announcements for specific contents. Open to Honors-qualified students beyond the freshman year. May be repeated for up to six credit hours for different topics.

HONR-3560 (3) Science and Mysticism

Has modern science proven or validated the mystical religious experience? Or does a basic conflict remain between these diverse human endeavors? The similarities and differences between science and mysticism will be investigated through readings, discussions and practical, experiential exercises. Discussions and exercises will be designed to encourage both an intellectual and a non-intellectual understanding of the course material. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

HONR-3810 (3) Privilege and Modern Social Construction

This course examines social constructions that lead to productive interactions between and among American social communities. Using case studies and humanistic accounts, students analyze the lived experiences of a unique group or successful citizens who routinely evidence productive practices of multicultural engagement. Through interactions with policy makers and community practitioners, students design and enact activities that allow them to reconstruct their personal patterns of privilege practices of their peer groups in various settings. Prereq., HONR 1810 or demonstrated academic study of race, class, and gender. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

HONR-4000 (3) Open Topics

Variety of new courses at the 4000 level, see Honors Program announcements for specific contents. May be repeated up to 6 total credit hours. Restricted to juniors/seniors or instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

HONR-4025 (3) Heroines and Heroic Tradition

Given recent controversies about the roles of women in power, this course re-evaluates heroic traditions as the stories that ground our sense of public endeavor. What do we mean by heroic? What is a heroine? Are heroines different from heroes? Approved for arts and sciences core curriculum: human diversity. Prerequisites: A minimum 3.3 cum GPA is required for this Honors class or you must be part of the first year student group.

HONR-4055 (3) Discourse Analysis and Cultural Criticism

Discourse analysis critically investigates the founding assumptions by which systems of meaning operate. Its practice is aimed at a rigorous, systematic analysis of both specific cultural issues and the dynamics by which structures of meaning may be maintained or transformed. Coreq., HONR 4056. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

HONR-4056 (1-3) Service Practicum: Discourse Analysis and Cultural Criticism

Help communities in need, with credit hours varying according to time commitment. The practicum provides experiential and intellectual understanding of the discourses and dynamics that maintain major cultural hierarchies of values and of resource distribution. Coreq., HONR 4055. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

HONR-4959 (3-6) Honors Thesis

May be repeated up to 6 total credit hours. Requires approval of Honors Program.



Courses

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HUEN

HUEN-1010 (3) Introduction to the Humanities

Explores a wide variety of challenging and interesting humanistic themes (love, responsibility, ambition, etc.) in many forms (fiction, philosophy, plays, poetry, art, music, etc.). In small discussion-based classes, emphasizes the writing, public speaking and critical thinking skills needed to excel as a professional engineer. Fulfills College of Engineering writing requirement for first-year freshmen only. Prerequisites: Restricted to students with 0-26 (Freshmen) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-1843 (3) Special Topics

Explores different important themes in the humanities; check with the department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-1850 (3) Engineering in History: The Social Impact of Technology

Explores how engineering has shaped who we are, how we think, and what we think about, by examining preconceived notions of progress, property, time, and work. Textbook readings plus original sources in philosophy, literature, psychology, and economics provide a rich and stimulating tour of engineering history. Prerequisites: Restricted to students with 0-56 (Freshmen or Sophomore) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-2010 (3) Tradition and Identity

Explores the place and possibility of personal identity both within and against the influence of tradition, including family, culture, language,

and social, political and economic institutions. Via literature and film, wrestles with the nature of freedom, self-determination, and belonging. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2020 (3) The Meaning of Information Technology

Surveys the history of information technologies and modern techniques of information production, storage, transmission, and retrieval. Emphasizes understanding not only the technological transformations in interpersonal, organizational, and mass communication, but also the technological, social and political changes that underlie the movement toward a digital society. HUEN 2020 is restricted to ENGR majors only. ATLS 2000 is restricted to TAM students. ATLS 2000 and HUEN 2020 are the same course. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2100 (3) History of Science and Technology to Newton

Spans invention and discovery from the Stone Age to the age of Newton, raising questions about culture, history, and personal expectation; studies Pyramids, odometers, cathedrals, Galileo, etc., on the way. Formerly HUEN 1100. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2120 (3) History of Modern Science from Newton to Einstein

Surveys the great discoveries and theoretical disputes from Newtonian celestial mechanics to the theory of relativity. Includes physics, astronomy, chemistry, geology, and biology; closely examines scientific method, evolution, light and quantum theory. Uses original sources by Newton, Faraday, Lavoisier, Darwin, etc., for immediate contact with the great minds in science. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2130 (3) History of Modern Technology from 1750 to the Atomic Bomb

Surveys the great innovations from the Steam Age to the Atomic Age: transportation, modern construction, communications, internal combustion, etc. Supplements textbook accounts with drawings, patents, and original selections by Edison, Carnegie, Tesla, Bell, etc. Studies the sociological impact of social change via contemporary sources in literature, philosophy, painting and film. Prerequisites: Restricted to College of Engineering majors only.

College of Engineering & Applied Science Humanities for Engineers

HUEN-2210 (3) Engineering, Science, and Society

Explores challenges that engineering and science pose for society plus the ways that societies shape or impede science and

engineering. Case studies range from contemporary issues (global warming, nuclear weapons, and genetic engineering) to classic cases (the execution of Socrates). Core texts in the Western Tradition supplement contemporary articles and films. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-2843 (1-3) Special Topics

Explores different important themes in the humanities; check with the department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-3100 (3) Humanities for Engineers 1

Explores what it means to be a fully human being: through group discussion, closely examines individual works of culturally and historically significant philosophy, literature, and art. Includes extensive writing. Fulfills the College of Engineering & Applied Science writing requirement. Minimum GPA of 3.0 preferred. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-3200 (3) Humanities for Engineers 2

Explores what it means to be a fully human being: through group discussion, closely examines individual works of culturally and historically significant philosophy, literature, and art. Includes extensive writing. Fulfills the College of Engineering and Applied Science writing requirement. Minimum GPA of 3.0 preferred. Prerequisites: Requires pre-requisite course of HUEN 3100. Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-3700 (3) Culture Wars in Rome

Investigates in Rome, Italy (during Maymester), the cultural contrasts among three different cities: ancient, pagan, aristocratic Rome; medieval, Christian, theocratic Rome; and modern, secular, democratic Rome. Draws on evidence from Roman literature, politics, art, and architecture. Must have completed a minimum of 26 credit hours by start of course. Requires some preparatory work in Boulder.

[College of Engineering & Applied Science](#) [Humanities for Engineers](#)

HUEN-3750 (3) Xi'an, China: Self-Awareness and Images of the Other

Explores Chinese culture abroad, focusing on ideas of self and other within special historical, social, political, and economical circumstances. Chinese and American concepts of self and society, of individual, collective, and national identities will be analyzed. Held on the campus of Xi'an Jiaotong University, China. Prerequisite: HUEN 1010 or equivalent.

HUEN-3840 (1-3) Independent Study

Offers an opportunity for students to do independent work in the humanities. Subject arranged to fit the needs of the student. May be repeated up to 3 total credit hours. Instructor consent required. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) College of Engineering students only.

HUEN-3843 (3) Special Topics

Explores different important themes in the humanities, check with department for specific semester topics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering students only.

HUEN-4200 (3) Humanities for Engineers 4

Continuation of HUEN 4100. Provides opportunity to pursue a variety of humanistic themes related to Herbst Humanities Program. Prereq., HUEN 4100.



Courses

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HUMN

HUMN-1010 (6) Introduction to Humanities 1

Six meetings a week (three discussion classes on literature and its critical-historical analysis and three lecture-demonstrations on art and music). Provides an analytical and comparative study of works in literature, music, and visual arts from Aegean to Baroque eras. Emphasizes structure, content, and style in specific examples. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Humanities](#)

HUMN-1020 (6) Introduction to Humanities 2

Six meetings a week (three discussion classes on literature and its critical-historical analysis and three lecture-demonstrations on art and music). Examines from Baroque to contemporary styles in literature, music, and visual arts. Emphasizes the cultural context in which art was created. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Humanities](#)

HUMN-1701 (3) Nature and Environment in German Literature and Thought

Critically examines titles in German literature and thought. Nature and environment are used to explore alienation, artistic inspiration, nihilism, exploitation, sexuality, rural versus urban, meaning of the earth, cultural renewal, identity and gender. This "Green" survey of German classics spans Romanticism's conception of nature as unconscious spirit to the politics and values of contemporary Germany's Green party. Same as GRMN 1701. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Humanities](#)

HUMN-2000 (3) Methods and Approaches to the Humanities

Provides a transition from the introductory courses to the upper-division courses. Introduces the various technical methods and topics encountered in the department's comparative, interdisciplinary upper-division courses, including cultural studies, rhetoric, translation, hermeneutics, word/image studies, etc. Restricted to Humanities majors only. Prereq., HUMN 1010 or 1020. Prerequisites: Restricted to Humanities (HUMN) majors only.

College of Arts & Sciences Humanities

HUMN-2100 (3) Arts, Culture and Media

Promotes a better understanding of fundamental aesthetic and cultural issues by exploring competing definitions of art and culture. Sharpens critical and analytical abilities by asking students to read and compare different theories about arts, culture, media, and identity, and then to apply and assess those theories in relation to a selection of visual and verbal texts from a range of cultural and linguistic traditions. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-2145 (3) African America in the Arts

Introduces interrelationships in the arts of African Americans and the African American contribution to American culture as a whole. Approved for arts and sciences core curriculum: human diversity or United States context.

College of Arts & Sciences Humanities

HUMN-2601 (3) Kafka and the Kafkaesque

Exposes the students to a wide selection of Kafka's literary output and aims to define the meaning of the Kafkaesque by looking not only for traces of Kafka's influence in the verbal and visual arts, but also for traces left in Kafka's own work by his precursors in the literary tradition. Same as GRMN 2601. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-3015 (3) Jung, Film, and Literature

The basic themes of C. G. Jung's archetypal psychology (shadow, anima/animus, character typology, and individuation) are studied and applied as tools of critical analysis to selected films and literary texts of the modern period. Instructor consent required. Same as FILM 3022.

College of Arts & Sciences Humanities

HUMN-3092 (3) Studies in Humanities

Students should check with the department for specific semester offerings. May be repeated up to 12 total credit hours, provided the specific offerings vary. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-3093 (3) Topics in Humanities

Students should check with the department for specific semester offerings. May be repeated up to 12 total credit hours, provided the specific offerings vary. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-3104 (3) Film Criticism and Theory

Surveys the range and function of film criticism, introduces major positions and concepts of film theory, and focuses on students' abilities to write about film. Prereq., FILM 1502. Same as FILM 3104.

College of Arts & Sciences Humanities

HUMN-3210 (3) Narrative

Explores the nature of sacred and secular narrative in literature, film, and the visual arts. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 4013.

College of Arts & Sciences Humanities

HUMN-3211 (3) The Craft of Mystery

Explores examples of and theories about the formation and growth of the genre of detective fiction, especially in the late 19th and early 20th centuries. Explores the social conditions of the times in which the texts were written and the possible resulting influences on style. Compares the texts and theories to examples from other genres and time periods. Prereqs., HUMN 2000 or junior/senior standing.

College of Arts & Sciences Humanities

HUMN-3212 (3) Shipwrecks, Mutinies, and Other Catastrophes at Sea

Explores the theatrical analogy that frames our understanding of catastrophes at sea and their literary and visual representation, paying particular attention to issues of gender, race, and sexuality, which are intentionally banned from such representations, but turn out to be their secret focus. Prereq., HUMN 2000 or junior/senior standing.

College of Arts & Sciences Humanities

HUMN-3220 (3) Epic

Comparative and interdisciplinary study of the figure of the hero and the concept of fate in the epic tradition and the modern novel. Explores literary, religious, philosophical, and ethical issues. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 4023.

College of Arts & Sciences Humanities

HUMN-3230 (3) Comedy

Offers an interdisciplinary approach to comedy, examining art, music, literature, and film from different periods. Comic theory is interlaced with the study of particular works. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 3033.

College of Arts & Sciences Humanities

HUMN-3240 (3) Tragedy

Studies some of the great tragic works of art, music, and literature from the Greeks to the 20th century. Tragic theory is invoked as an aid to interpretation. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 3043. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-3250 (3) Dramatic Arts

Interdisciplinary course that examines and compares various forms of the dramatization of narrative: written texts, audio, video, film, and live performances. Compares different versions of the same narrative or theme, especially if different media are used and different time periods are involved. Prereq., HUMN 2000 or junior/senior standing. Formerly HUMN 4133.

College of Arts & Sciences Humanities

HUMN-3290 (3) Foundations of Disability Studies

Introduces students to the interdisciplinary field of disability studies by investigating key concepts in disability theory, disability history and culture, media representations of people with disabilities, and pertinent bioethical issues.

College of Arts & Sciences Humanities

HUMN-3321 (3) Culture and Literature of Ancient China

Focuses on the religious, cultural, philosophical, and literary aspects of ancient Chinese civilization (1500 B.C.-A.D. 200). Special attention is paid to foundational works that influenced later developments in Chinese culture. All readings are in English. Recommended prereq., EALC 1011 or CHIN 1051. Same as CHIN 3321.

College of Arts & Sciences Humanities

HUMN-3341 (3) Literature and Popular Culture in Modern China

Surveys 20th century Chinese literature and popular culture against the historical background of rebellion, revolution, and reform. Emphasizes close and critical reading skills and an understanding of how aesthetic texts reflect and critically engage with historical and cultural experiences. Assignments include novels, essays, short stories, poems, plays, songs, films, and scholarly articles. Taught in English. Recommended prereq., CHIN 1021 or 1051. Same as CLAS 3341. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-3505 (3) The Enlightenment: Tolerance and Emancipation

Examines Enlightenment notions of reason, humanity, and social progress. Topics include 18th century views on government, science, education, religion, slavery, and gender roles. Taught in English. Same as GRMN 3505. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Humanities

HUMN-3550 (3) Imag(in)ing Meaning

Explores the role of imagination in constructing narratives of meaning through close readings of various genres (fiction, poetry, manifesto, essay), various modes of artistic expression (art, film, photography, documentary), and essays of critical theory. Prereq., HUMN 2000 or junior/senior standing.

College of Arts & Sciences Humanities

HUMN-3640 (3) Modernisms: Art and Theory from 1900 to 1960

Offers an introduction to Modernism in various media, emphasizing in particular the historical development of the visual arts from German Expressionism and Cubism to Neo-Dada and Pop Art. Readings in literature will include Proust, Beckett, Blanchot, and poets associated with various art movements. Theoretical readings range from Saussure and Freud to Adorno and Jameson. Recommend prereq., HUMN 2000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-3660 (3) The Postmodern

Analyzes the cultural and critical practices as well as the thought that defines the postmodern period at the end of twentieth century. Prereq., HUMN 2000 or junior/senior standing. HUMN 3660 and FILM 3660 are the same course. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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HUMN

HUMN-3702 (3) Dada and Surrealist Literature

Surveys the major theoretical concepts and literary genres of the Dada and Surrealist movements. Topics include Dada performance and cabaret, the manifesto, montage, the readymade, the Surrealist novel, colonialism and the avant-garde, and literary and philosophical precursors to the avant-garde. Same as GRMN 3702. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Humanities](#)

HUMN-3802 (3) Politics and Culture in Berlin 1900-1933

Examines early 20th century German culture, with emphasis on the Weimar Republic (1918-1933) in light of contemporaneous political discussions. The course presents modern art and literature (Expressionism, Dada, Brecht's epic theater) and architecture and design (Bauhaus, Werkbund) as well as political movements of women, sexual minorities, and Berlin's Jewish communities. Taught in English. GRMN 3802 and HUMN 3802 are the same course. Offered through CU Study Abroad Program. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Humanities](#)

HUMN-3811 (3) Love, Death, and Desire: Classical Japanese Literature in Translation

Surveys the major works and authors of classical Japanese literature, both poetry and prose, from the earliest historical records and literary anthologies through the Heian period (784--1185). Taught in English. Recommended prereq., JPNS 1051. Same as JPNS 3811.

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HUMN-3820 (3) Greek and Roman Antiquity in Music, 1600 to Present

Explores the influence of Greek and Roman mythology and history on various genres of music since 1600. Explains the context and meaning of ancient themes and their use by composers from the Renaissance to the present. Recommended prereq., CLAS 1100. Same as CLAS 3820.

College of Arts & Sciences Humanities

HUMN-3841 (3) Tradition and Transgression: Modern Japanese Literature in Translation

Surveys the major works, authors, and genres of literature from the late Meiji period and 20th century in their historical and cultural contexts. Attention is given to various approaches of literary analysis and interpretation. Taught in English. Recommended prereq., JPNS 1051. Same as JPNS 3841.

College of Arts & Sciences Humanities

HUMN-3850 (3) The Mediterranean Religion Before Modernity

Offers an innovative approach to the multifaceted history of Christian-Muslim-Jewish interaction in the Mediterranean. It eschews established paradigms (e.g., Europe, Islamic world) that distort our understanding of these and pushes students to reconsider the accepted paradigms of Western history. Students will reappraise assumptions regarding the nature of ethnic, religious, national and cultural identity, and their role in human history.

College of Arts & Sciences Humanities

HUMN-3860 (3) Politics and the Arts in the Information Age

Examines the political aspects of the art and literature of the information age, with a focus on conceptual practices since 1965. The course investigates political theories of art along side sculpture, performance, installation, poetry, and graphic design. Recommended prereq., HUMN 2000 or restricted to students with 57-180 credits (Junior or Senior).

College of Arts & Sciences Humanities

HUMN-3930 (1-6) Humanities Internship

Students gain academic credit and professional experience working in museums, galleries, arts administration, and publishing. They work 3-18 hours per week with their professional supervisor and meet regularly with a faculty advisor who determines the reading and writing requirements. Prereqs., junior standing and interview with faculty advisor.

College of Arts & Sciences Humanities

HUMN-3935 (1-3) Humanities Internship: Literature and Social Violence

See HUMN 4835. Coreq., HUMN 4835.

College of Arts & Sciences Humanities

HUMN-4000 (3) The Question of Romanticism

Interdisciplinary study of literature, art, and music from 1780 to 1830 in France, England, and Germany. Prereq., HUMN 2000 or restricted to juniors/seniors.

College of Arts & Sciences Humanities

HUMN-4004 (3) Topics in Film Theory

Provides topic-centered analyses of controversial areas in film theory. Students read extensive materials in the topic area, analyze and summarize arguments as presented in the literature, write "Position" papers, and make oral presentations in which they elaborate their own arguments about specific assigned topics, establishing critical dialogue with the primary materials. May be repeated up to 6 total credit hours. Prereq., FILM 3051 or instructor consent. Restricted to senior FILM, FMST, or HUMN majors. Same as FILM 4004 and ARTF 5004.

College of Arts & Sciences Humanities

HUMN-4010 (3) Hitchcock and Freud

Applies Freudian psychoanalysis to the films of Alfred Hitchcock. Students will familiarize themselves with the Freudian methodology by reading a number of books and essays and then apply both Freud's general ideas as well as specific texts to particular aspects, both formal and contentual, of his films. Particular attention will be given to the important field of "feminism and psychoanalysis" as it relates to the study of the role of women in Hitchcock's films. Restricted to juniors and seniors.

College of Arts & Sciences Humanities

HUMN-4020 (3) Reading, Chance, and Guessing

Considers the method of the humanities as opposed to those of the natural and social sciences, especially in view of their respective ability or claim to predict the future and to master chance. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-4030 (3) The Art of Travel

Examines the art of travel: not where to go and what to do, but rather philosophical concepts about why people travel. Areas of discussion will include exploration, discovery, escape, pilgrimage, the grand tour, expatriotism, exile, nomadism, armchair travel, and the sense of home. Materials will include books by travel writers, novels, films, essays, short stories, art, music, and historical documents. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-4050 (3) Representations of People with Disabilities

Examines the representation of people with disabilities in canonical and contemporary literature and drama, and introduces students to disability theory and the history of people with disabilities.

College of Arts & Sciences Humanities

HUMN-4060 (3) Modern Critical Theory

Explores, through guided discussions, the concept of theory itself and how a theory is constructed. Emphasizes the close reading of theory in order to learn to analyze critically, considering theory as something to be thought about rather than simply applied. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-4082 (3) 19th Century Art and Literature

Interdisciplinary study of English fiction and poetry together with related movements in visual arts. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-4092 (3) Advanced Studies in the Humanities

Students should check with the department for specific semester offerings. May be repeated up to 9 total credit hours, provided the specific offerings vary. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-4093 (3) Advanced Topics in the Humanities

Students should check with the department for specific semester offerings. May be repeated up to 9 total credit hours, provided the specific offerings vary. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or

Seniors).

College of Arts & Sciences Humanities

HUMN-4100 (3) Writing the World in Traditional China

Examines the history and implications of the central role played by writing in pre-modern China, especially with regard to traditional constructions of the world, including relations with aesthetics, the non-human, and the spiritual. Key works of Chinese literature and thought from different periods are studied, with the aim of determining a particular type of Chinese humanism. All readings in English. Restricted to students with 57-180 credits (Junior or Senior). Recommended prereqs., HUMN 1010 and/or 1020. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-4110 (3) Greek and Roman Epic

Students read in English translation the major epics of Greco-Roman antiquity such as the Iliad, Odyssey, Argonautica, Aeneid, and Metamorphoses. Topics discussed may include the nature of classical epic, its relation to the novel, and its legacy. No Greek or Latin required. Same as CLAS 4110. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-4120 (3) Greek and Roman Tragedy

Intensive study of selected tragedies of Aeschylus, Sophocles, Euripides, and Seneca in English translation. No Greek or Latin required. Same as CLAS 4120. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-4130 (3) Greek and Roman Comedy

Studies Aristophanes, Plautus, and Terence in English translation. No Greek or Latin required. Same as CLAS 4130. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-4131 (3) The Greek and Roman Novel

Studies five surviving complete Greek novels from classical antiquity, three Latin novels, and their predecessors and contemporary neighbors in the genres of Greek prose fiction. Readings in English translation. No required prerequisite, but a previous course in classical literature or myth is recommended. Same as CLAS 4140/5140.

HUMN-4135 (3) Art and Psychoanalysis

Explores psychoanalytic theory as it relates to our understanding of literature, film, and other arts. After becoming familiar with some essential Freudian notions (repression, narcissism, ego/libido, dreamwork, etc.), students apply these ideas to works by several artists (e.g., Flaubert, James, Kafka, Hoffmann, and Hitchcock). Prereq., HUMN 2000 or junior/senior standing. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).



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HUMN

HUMN-4140 (3) The Age of Dante: Readings from The Divine Comedy

Focuses on close reading of Dante's poetry with emphasis on the intellectual, religious, political, and scientific background of the medieval world. Taught in English. Prereq., junior standing or instructor consent. Same as ITAL 4140. Credit not granted for this course and ITAL 4145 or 4147. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Humanities](#)

HUMN-4150 (3) The Decameron and the Age of Realism

Analyzes the rise of realism in 13th and 14th century Italian literature and parallel manifestations in the visual arts. Focuses on Boccaccio's Decameron and contemporary realistic prose and poetry with emphasis on gender issues and medieval cultural diversity. Taught in English. Prereq., junior standing or instructor consent. Same as ITAL 4150. Approved for arts and science core curriculum: literature and the arts or human diversity.

[College of Arts & Sciences](#) [Humanities](#)

HUMN-4155 (3) Philosophy, Art, and the Sublime

Explores philosophies of art, theories of the sublime, and the relation between art and morality through philosophy, literature, and the visual arts. Includes works by Plato, Longinus, Burke, Rousseau, Kant, Mary Shelley, Melville, Friedrich, Turner, and Pollock. Prereq., HUMN 2000 or junior/senior standing. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Humanities](#)

HUMN-4170 (3) Fiction and Reality: Literature, Science, and Culture

Explores the significance of how one defines "fiction" and "reality". Begins by defining the core concepts and compares them with related terms. Lectures and discussions analyze the implications of these concepts from the perspective of a variety of disciplines and in the context of diverse issues in order to develop a critical awareness of them. Reading and writing intensive. Recommended prereqs., HUMN 2000 and junior or senior standing.

College of Arts & Sciences Humanities

HUMN-4502 (3) Nietzsche: Literature and Values

Emphasis is placed on Nietzsche's major writings spanning the years 1872--1888, with particular attention to the critique of Western values. A systematic exploration of doctrines, concepts, and ideas leading to the values of creativity. Same as GRMN 4502. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Humanities

HUMN-4504 (3) Goethe's Faust

Systematic study of the Faust motif in Western literature, with major emphasis on Faust I and II by Goethe and Thomas Mann's Doctor Faustus. Same as GRMN 4504/5504 and COML 5504. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-4555 (3) The Arts of Interpretation

Introduces various hermeneutical methodologies (literary/philosophical criticism, biblical exegesis, art history, etc.) with which to examine the question of interpretation. Methodologies are studied in close conjunction with particular works of art. Prereq., HUMN 2000 or junior/senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-4650 (3) Religion, Power, Modernity

Examines the representation of religion in relationship to the claims made by modern narratives of power in fables, literature, graphic novels, visual materials and critical writings. Restricted to students with 57-180 credits (Junior or Senior). Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Humanities

HUMN-4730 (3) Italian Feminisms: Culture, Theory, and Narratives of

Difference

Studies Italian women writers, artists, and film makers of this century. Literary and visual texts are analyzed in dialogue with readings of leading Italian gender theorists. Italian history and culture is reread by following the development of a discourse about women. Taught in English; readings in Italian for Italian majors. Same as ITAL 4730. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Humanities

HUMN-4811 (3) 19th Century Russian Literature

Surveys background of Russian literature from 1800 to 1900. Russian writers and literary problems in the 19th century emphasizing major authors: Pushkin, Lermontov, Gogol, Dostoevsky, Turgenev, Tolstoy, and Chekhov. Same as RUSS 4811. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-4821 (3) 20th Century Russian Literature and Art

Interdisciplinary course emphasizing the influence of art in 20th century Russian literature. Follows the changing cultural landscape from the time when Russia was in the vanguard of modern European literature to the gradual cultural relaxation that culminated in Perestroika and Glasnost. Same as RUSS 4821. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Humanities

HUMN-4835 (3) Literature and Social Violence.

Provides a theoretical understanding of heightened awareness arising from literary and sociological investigations of contemporary sources of social violence (gang culture, racism, domestic violence), combined with the concrete knowledge offered by an internship in a social service agency. Optional internship credit is available. Restricted to sophomores/juniors/seniors. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Humanities

HUMN-4840 (1-3) Independent Study

May be repeated for a maximum of 6 total credit hours.

College of Arts & Sciences Humanities

HUMN-4950 (1-6) Honors Thesis

Supervised project on a topic of the student's own choosing. It should demonstrate ability in interdisciplinary (such as literature and art, art and music, film and literature, literature and theory), extensive research, critical thinking, and excellent writing skills. The thesis is submitted to the Honors Program of the College of Arts and Sciences and is orally defended. Restricted to junior or senior Humanities majors only. Prerequisites: Restricted to junior or senior Humanities majors only.

[College of Arts & Sciences](#) [Humanities](#)

HUMN-4990 (3) Senior Humanities Seminar

In-depth interdisciplinary study of a selected topic in humanities. Prereqs., 6 hours of upper-division humanities, senior standing, and 3.00 GPA in humanities.

[College of Arts & Sciences](#) [Humanities](#)

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Courses

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All

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IAFS

IAFS-1000 (4) Global Issues and International Affairs

Introduces the student to the international affairs program. The course examines political and economic development in several countries in many different world regions. Examines historical trends and development as well as current political and economic issues. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to International Affairs (IAFS) , Political Science (PSCI), Anthropology (ANTH), Economics (ECON), History (HIST), Geography (GEOG) or College of Arts and Sciences Open Option (XXAS) majors only.

[College of Arts & Sciences](#) [International Affairs](#)

IAFS-3000 (3) Special Topics in International Affairs

Junior or senior level umbrella seminar spanning a variety of topics relevant to the study of international affairs. Subjects addressed under this heading vary according to student interest and faculty availability. May be repeated up to 9 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) International Affairs (IAFS) or Political Science (PSCI) majors only.

[College of Arts & Sciences](#) [International Affairs](#)

IAFS-3300 (6) Economy, Politics and Society in the Middle East

Presents social, political, and economic aspects of the Middle East through a faculty-led study abroad in Kuwait, featuring interactions with officials, bankers, university faculty and local students. Offers a unique opportunity to discuss issues with Kuwaitis at Diwanas, as well as to participate in seminars and workshops with local faculty and representatives of Kuwaiti businesses and government agencies. Prereq., ECON 1000 or 2020.

[College of Arts & Sciences](#) [International Affairs](#)

IAFS-3500 (3) French Connections: Contemporary France and America in Historical Context

This faculty-led Global Seminar, based in Bordeaux, France provides an opportunity to compare French history and contemporary culture, economy, and culture to that of the United States. Lectures in Boulder and Bordeaux are supplemented by interactions with officials, scholars, business leaders, interest groups, and organizations in France. Offered through Study Abroad. IAFS 3500 and HIST 4190 are the same course. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences International Affairs

IAFS-3600 (3) Global Secular Jewish Societies

This course uses a transnational lens to explore contemporary debates about Jewish people, places, and practices of identity and community. Drawing on history, sociology, international studies, and anthropology, we'll think about the places that Jewish people have called 'home,' and what has made, or continues to make those places 'Jewish.' We'll also explore diverse practices that express the extraordinary varieties of Jewishness (such as building synagogues, food markets, and coffeehouses, creating film festivals, going on heritage travel, Israeli-Jewish backpacking, the creation of online websites and blogs, and creating new urban kibbutzim). Restricted to students with minimum 57 units completed. JWST 3600 and IAFS 3600 are the same course. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences International Affairs

IAFS-3610 (3) Topics in International Affairs and Jewish Studies

Explores topics in international affairs as it relates to Jewish culture and society. Subjects addressed under this heading vary according to student interest and faculty availability. May be repeated up to 9 total credit hours. IAFS 3610 and JWST 3610 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences International Affairs

IAFS-3650 (3) History of Arab-Israeli Conflict

Explores the origins and development of the Arab-Israeli conflict. Traces Arab-Jewish/Israeli relations from the nineteenth century through the Palestine Mandate, the evolution of Arab and Jewish nationalism, and the creation of Israel to the present day. Recommended prereqs., HIST 1308; HIST/JWST 1828. Same as JWST 3650. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) International Affairs (IAFS) majors only.

College of Arts & Sciences International Affairs

IAFS-4500 (3) The Post-Cold War World

Capstone course for international affairs majors. Examines the ways in which the end of the Cold War, the collapse of failed states, and the rise of global terrorism changed the world. Studies how peoples, governments and nongovernmental organizations face new social, political, economic and security challenges in an era of globalization. Includes discussion, oral reports, critical book reviews, and research papers. Prerequisites: Restricted to students with 87-180 credits (Senior) International Affairs (IAFS) majors only.

College of Arts & Sciences International Affairs

IAFS-4800 (3) Honors Seminar in International Affairs

Directed research course tailored to the particular research interests of the students enrolled. Devoted to research methodology and the development of students' research. Prereq., 3.30 GPA and 3.40 IAFS GPA .

College of Arts & Sciences International Affairs

IAFS-4810 (3) Honors in International Affairs

Continuation of IAFS 4800. Students complete original research begun in the fall and write and defend their honors thesis. They meet regularly with the instructor. Prereq., IAFS 4800.

College of Arts & Sciences International Affairs

IAFS-4900 (1-6) Independent Study in International Affairs

Provides an opportunity to earn academic credit for learning outside the formal class structure. Students interested in doing in-depth research propose a research project to a faculty sponsor and then work closely with that person to produce a piece of original research. Prereq., upper-division standing, GPA of 3.00 or better, grade of C or better in all lower-division courses, and at least 6 upper-division courses. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences International Affairs

IAFS-4930 (3-6) Internship in International Affairs

Working individually under the guidance of a public or private organization, students are assigned to projects selected for their academic suitability. Written assignments occur throughout the semester. Prereq., departmental approval.

College of Arts & Sciences International Affairs



Courses

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All

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Subject **Number**

INBU

INBU-3300 (3) International Business and Management

This survey course takes a broad and comprehensive perspective on managing and operating in a rapidly growing global economy. Explores regional and national approaches to international management, including trade practices, country penetration strategies, international finance and accounting, marketing across cultures, global service and manufacturing operations, cultural and legal differences, ethical and sustainability issues, and global competitive strategy. Prereq., 52 hours completed. Formerly INBU 4300. Prerequisites: Restricted to Business or International Affairs majors with 52-180 units completed.

[Leeds School of Business](#) | [International Business](#)

INBU-3450 (3) International Marketing

Describes the economic, geographic, political, and social forces that have shaped and continue to define global markets. Examines topics critical to success in international markets, including assessment of a firm's international capabilities, techniques for gauging the potential of international markets, international segmentation approaches, and alternative arrangements for entering foreign markets. Compares and contrasts product, price, distribution, logistics, promotion, and research decisions made in global versus domestic markets. Introduces students to financial arrangements characteristic of international marketing, including exchange rates and controls, balance-of-payment principles, import licensing agreements and tariffs. Restricted to Business (BUSN), Advertising (ADVT) or International Affairs (IAFS) majors with 52-180 units completed. Prereq., BCOR 2400. Same as INBU 5100. Formerly MKTG 3450. Prerequisites: Requires pre-requisite class of BCOR 2400. Restricted to Business (BUSN), Advertising (ADVT) or International Affairs (IAFS) majors with 52-180 units completed.

[Leeds School of Business](#) | [International Business](#)

INBU-4200 (3) International Financial Management

Examines the financial policies and problems associated with firms doing business internationally. Topics include the foreign exchange environment, country risk, managing foreign exchange exposure, international working capital management, international capital budgeting, and international financial markets. Prereqs., BCOR 1020, 2000, and 2200. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 2200. Restricted to Business or IAFS Majors with 52-180 units completed.

INBU-4825 (1-6) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in International Business Entrepreneurship. Prerequisites: Restricted to students with 57-86 credits (Junior).

INBU-4900 (1-12) Independent Study

Prereq., instructor consent. Departmental form required.

INBU-5100 (3) International Business and Marketing

Same as MKTG 3450.



Courses

Search by College, Department & Category

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Subject **Number**

INDO

INDO-1010 (5) Beginning Indonesian 1

Provides a thorough introduction to the modern Indonesian language, emphasizing speaking, listening, reading and writing skills. This course is proficiency-based. Activities aim to place the student in the context of the native-speaking environment from the very beginning. Students will be provided opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Indonesian](#)

INDO-1011 (3) Introduction to Indonesian Civilization

Provides an overview of the past and present of Indonesia, the people, and their cultures. Discussions with guest speakers, and on films, music, and images, will allow them to get acquainted with important issues and values in today's Indonesia. A closer look to the five major islands in the archipelago will introduce them to the diversity of this nation's 234,693,997 people. Taught in English.

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Indonesian](#)

INDO-1020 (5) Beginning Indonesian 2

Continuation of INDO1010. Provides a thorough introduction to the modern Indonesian language, emphasizing the context of the native-speaking environment from the very beginning. Students will be provided with opportunities to participate in local Southeast Asian events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereq., INDO 1010 (min. grade C).

[College of Arts & Sciences](#)
[Asian Languages & Civilizations](#)
[Indonesian](#)

INDO-2010 (4) Intermediate Indonesian 1

Aims to increase the students' proficiency in listening, speaking, reading, and writing in modern Indonesian. Students will use only Indonesian in class. Evaluation based on classroom performance, homework, tests, and final project. Students will be provided with opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereqs., INDO 1010 and 1020 (min. grade C). Meets MAPS requirement for foreign language.

College of Arts & Sciences Asian Languages & Civilizations Indonesian

INDO-2020 (4) Intermediate Indonesian 2

Continuation of INDO 2010. Aims to increase the students' proficiency in listening, speaking, reading, and writing in modern Indonesian. Students will use only Indonesian in class. Evaluation based on classroom performance, homework, tests, and final project. Students will be provided with opportunities to participate in local Southeast Asian cultural events. Students with previous experience with Indonesian or Malay should contact the instructor for placement. Prereq., INDO 2010 (min. grade of C).

College of Arts & Sciences Asian Languages & Civilizations Indonesian

INDO-3010 (3) Advanced Indonesian 1

Develops students' proficiency in language skills in modern Indonesian. Emphasis is on students' command in leading discussion and writing in formal Indonesian. Students read classic and contemporary authentic materials. Evaluation based on classroom performance, essays, and final project. Students will be provided with opportunities to participate in local Southeast Asian cultural events. Fluent Indonesian or Malay speakers who wish to learn more about Indonesian cultures should contact the instructor for placement. Prereq., INDO 2020 (min. grade C).

College of Arts & Sciences Asian Languages & Civilizations Indonesian

INDO-3020 (3) Advanced Indonesian 2

Continuation of Indo 3010. Develops students' proficiency in language skills in modern Indonesian. Emphasis is on students' ability to lead discussion and write in formal Indonesian. Students read classic and contemporary authentic materials. Evaluation based on classroom performance, essays, and final project. Students will be provided with opportunities to participate in local Southeast Asian cultural events. Fluent Indonesian or Malay speakers who wish to learn more about Indonesian cultures should contact the instructor for placement. Prereq., INDO 3010 (min. grade C).

College of Arts & Sciences Asian Languages & Civilizations Indonesian



Courses

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INVS

INVS-1000 (4) Responding to Social and Environmental Problems Through Service Learning

By integrating theory with required community service, students explore how problems are shaped by cultural values and how alternative value paradigms affect the definition of problems in areas such as education and the environment. Students examine different approaches to solving problems and begin to envision new possibilities. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [INVST Community Studies](#)

INVS-1513 (3) Civic Engagement: Using the Electoral Process as a Tool for Social Change

Designed to educate and inspire civic engagement primarily in the area of electoral politics. Examines various explanations of why people participate in the electoral process and whom they choose to support. Develops the practical skills necessary to participate successfully in the electoral arena. Through a service component, the course provides experience working on a campaign and mobilizing others to participate in the electoral process.

[College of Arts & Sciences](#) [INVST Community Studies](#)

INVS-1523 (3) Civic Engagement: Democracy as a Tool for Social Change

Educates and inspires students for civic engagement by exploring democratic values and the rights and responsibilities of citizenship. Develops theoretical knowledge and practical skills for participating in a diverse democratic society, especially at the state level, through analyzing legislative issues, making policy recommendations, and advocating for change. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

INVS-2919 (3) Renewing Democracy in Communities and Schools

Examines concepts of activism, citizenship, democracy, power, and diversity through classroom discussions and participation in a local high school's Public Achievement project. Through community-based partnerships, students will develop leadership skills; dialogue with diverse groups of people; identify multiple perspectives around controversial issues; and learn to use research and writing to articulate public problems and advocate for their solutions. May be repeated up to 6 total credit hours. Same as EDUC 2919. Approved for arts and sciences core curriculum: human diversity.

INVS-3000 (3-4) Innovative Approaches to Contemporary Issues through Service Learning

Explores creative approaches for solving complex social and environmental issues, with a focus on peace and population. Students analyze the root causes of issues in theoretical and historical contexts, and develop their understanding of effective and innovative approaches to change. This course has a requirement of community service. Recommended prereq., upper-division status. Approved for arts and sciences core curriculum: contemporary societies.

INVS-3041 (3) Self and Consciousness

Explores human development from a psychosocial perspective, focusing on the interplay between psychological patterns and social forms. Issues such as self-image and social consciousness are studied within the larger context of individual and collective forces leading to transformation. Prereqs., SOCY 1001, and SOCY 3001 or 3011, or instructor consent. Same as SOCY 3041.

INVS-3100 (3-4) Multicultural Leadership: Theories, Principles and Practices

Focuses on leadership theories and skills necessary for effectiveness in multicultural settings. Students gain understanding of traditional and culturally diverse approaches to leadership and change through comparative analyses of Western and non-Western theories and practices. Community service required. Same as ETHN 3201 and LDSP 3100. Approved for arts and sciences core curriculum: human diversity.

INVS-3302 (3) Facilitating Peaceful Community Change

Students gain knowledge and skills that enable them to become effective facilitators of community goals. Focuses on understanding the processes of community building with a multicultural emphasis. Students are encouraged to apply concepts of life experiences and to examine themselves as potential change agents. Theory and summer experience are integrated. Prereq., admission to INVST. Coreq., INVS 3912. Same as WMST 3302.

College of Arts & Sciences INVST Community Studies

INVS-3402 (3) Implementing Social and Environmental Change

Examines grassroots innovation as a means for creating comprehensive, solution-based strategies to address social and environmental problems. Students develop an understanding of the root causes of problems, identify how changes are initiated at the grassroots level, and learn the theory and practice of effective and responsible change efforts.

College of Arts & Sciences INVST Community Studies

INVS-3931 (1-6) The Community Leadership Internship, Part 1

Develops students' competencies as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community supervisor, students learn organizational leadership skills by serving as volunteer staff members at community-based organizations. Prereq., admission into INVST CLP. May be repeated up to 6 total credit hours.

College of Arts & Sciences INVST Community Studies

INVS-3932 (1-6) Community Leadership Internship, Part 2

Develops students' competencies as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community supervisor, students learn organizational leadership skills by serving as volunteer staff members at community-based organizations. May be repeated up to 6 total credit hours.

College of Arts & Sciences INVST Community Studies

INVS-4302 (3) Critical Thinking in Development

Exposes students to current issues in the political economy of development. Subjects range from globalization, democratization, and economic development. Specifically, the course explores the international and domestic determinants of economic development with special reference to currency markets, foreign direct investment, trade, and democratization. Prereqs., PSCI 2012 or IAFS 1000, ECON 2010 and 2020, and one upper-division PSCI course. Same as PSCI 4732. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences INVST Community Studies

INVS-4402 (3) Nonviolent Social Movements

Explores theories of democracy and development in relation to movements for nonviolent social change. Focuses on means and ends, spirituality, leadership, decision-making, civil society, cooperative economics, ecology and decentralized powers. Restricted to senior SOCY/PSCI majors. Same as SOCY 4111.

College of Arts & Sciences | INVST Community Studies

INVS-4931 (1-6) Community Leadership in Action, Part 1

Develops students' expertise as community leaders. Under the supervision of an instructor and a community advisor, students design a community-based project. Prereqs., admission to INVST CLP, INVS 3931 and 3932. May be repeated up to 6 total credit hours.

College of Arts & Sciences | INVST Community Studies

INVS-4932 (1-6) Community Leadership in Action, Part 2

Develops students' expertise as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community advisor, students learn organizational and leadership skills by designing, implementing and evaluating a community-based project. First-hand experience provides students with a deepened understanding of the complex issues facing humanity, and competence with solution-based strategies. May be repeated up to 6 total credit hours. INVS 4932 and LDSP 4932 are the same course.

College of Arts & Sciences | INVST Community Studies

INVS-4999 (1-6) Teaching Social Justice

INVS students participate in a service-learning practicum under the supervision of an INVS instructor. They explore teaching strategies for implementing concrete educational goals. Focusing on the issues of social justice and social change, they learn how to encourage higher levels of creativity and analysis among students. May be repeated up to 6 total credit hours. Prereqs., INVS 3302, 3931/3932, 4931/4932 (min grade B-).

College of Arts & Sciences | INVST Community Studies



Courses

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All

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IPHY

IPHY-1950 (3) Introduction to Scientific Writing in Integrative Physiology

Provides an overview of writing skills and strategies, emphasizing those most important to the sciences, especially physiology. Focuses on fundamental skills, objective analysis, and scientific persuasion, with attention to clear organization and style, academic and scientific mechanics, and distinctions between audiences. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 0-86 credits (Freshmen, Sophomore or Juniors) only.

[College of Arts & Sciences](#) [Integrative Physiology](#)

IPHY-2010 (1-3) Seminar in Integrative Physiology

Introduces a small group of lower-division students to current research topics in integrative physiology. Emphasizes relevant applications to real-world situations. May be repeated up to 6 total credit hours when topics vary.

[College of Arts & Sciences](#) [Integrative Physiology](#)

IPHY-2420 (3) Nutrition for Health and Performance

Focuses on the basic anatomy, physiology, and chemistry of nutrition. Topics include weight management, the role of diet and lifestyle in disease prevention, specific nutrient deficiencies and toxicities, nutrition standards and guidelines, sports nutrition recommendations, agricultural practices, and food policy issues. IPHY juniors or seniors are excluded from taking this course. Credit not granted for both IPHY 2420 and 3420. Approved for arts and sciences core curriculum: natural science. Prerequisites: Restricted to non-IPHY majors or IPHY freshmen/sophomores only.

[College of Arts & Sciences](#) [Integrative Physiology](#)

IPHY-2500 (1) Perspectives in Health and Medicine

Designed to increase awareness of issues that surround international and U.S. health care. Provides broad overview of topics relevant to 21st century medical practice. Includes guest lectures by faculty and practitioners from Denver Metro region, followed by opportunities to integrate new concepts using small group discussion and writing. Topics change each semester and may include: global development and health; socio-cultural issues in health care; health disparities; applied bioethics; health care system reform; narrative medicine. Restricted to sophomores/juniors/seniors. Pass/Fail grading only.

College of Arts & Sciences Integrative Physiology

IPHY-2800 (4) Introduction to Statistics

Examines the application of statistics to research relevant to integrative physiology. Includes instruction and hands-on experience with related computer programs and interpretation of the results of their use. Prereq., MATH 1300 or equivalent. Prerequisites: Restricted to Integrative Physiology majors only.

College of Arts & Sciences Integrative Physiology

IPHY-2910 (1-3) Practicum in Integrative Physiology

Offers practical experience in organized situations with direct supervision. Restricted to IPHY majors. May be repeated up to 3 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Kinesiology (KINE), Integrative Physiology (IPHY), or Integrative Physiology Concurrent Degree (C-IPHY) majors only.

College of Arts & Sciences Integrative Physiology

IPHY-3010 (1-2) Teaching in Integrative Physiology

Provides an opportunity to assist in teaching specific laboratory sections in IPHY under direct faculty supervision. Students must make arrangements with the faculty member responsible for the course in which they plan to assist. May be repeated up to 6 total credit hours. Prereq., junior standing and instructor consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Integrative Physiology

IPHY-3060 (4) Cell Physiology

Lect. and lab. Introduces the biology of eukaryotic systems at molecular, cellular, and systems levels of integration, emphasizing the complementarities of structure and function and physiological mechanisms of regulation at the cellular and molecular level. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240, IPHY 3430 (non-majors only), or IPHY 3470 (IPHY majors only). Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Integrative Physiology

IPHY-3410 (3) Introduction to Human Anatomy

Introduces the basics of human anatomy. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240.

College of Arts & Sciences Integrative Physiology

IPHY-3415 (2) Human Anatomy Laboratory

Introduces structures of the human anatomical systems using human cadavers and animal tissue. This laboratory is meant to complement IPHY 3410, Introduction to Human Anatomy lecture. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240; IPHY 3410 (or as coreq.).

College of Arts & Sciences Integrative Physiology

IPHY-3430 (3) Introduction to Human Physiology

Introduces the physiology of the nervous, muscular, cardiovascular, respiratory, urinary, immune, endocrine, digestive and reproductive systems. Restricted to non-Integrative Physiology majors only. Prereqs., EBIO 1210 and 1220; CHEM 1133 and 1134. Recommended prereqs., IPHY 3410 and 3415 or IPHY 3460. Prerequisites: Restricted to non-Integrative Physiology majors only.

College of Arts & Sciences Integrative Physiology

IPHY-3435 (2) Physiology Lab

Introduces laboratory experience in selected aspects of human and comparative physiology for students in pharmacy and allied health programs. Involves animals and animal tissues. Prereqs: one year of biology; one year of chemistry; IPHY 2800 (or equivalent), IPHY 3410 and 3415 or IPHY 3460; IPHY 3470 (majors) or IPHY 3430 (non-majors). Recommended coreq for majors only: IPHY 3450 or 3480.

College of Arts & Sciences Integrative Physiology

IPHY-3440 (3) Nutrition for Health and Wellness

Exploration of nutrition factors related to sports performance in strength, power, and endurance events. Prereq., IPHY 3470. Recommended prereq., IPHY 4650. Restricted to junior/senior IPHY majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree majors only.

College of Arts & Sciences Integrative Physiology

IPHY-3450 (3) Comparative Animal Physiology

Introduces principles of animal physiology and responses to environmental change. Involves animals and/or animal tissues. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240.

College of Arts & Sciences Integrative Physiology

IPHY-3460 (5) Comparative Vertebrate Anatomy

Introduces major components of the vertebrate body and how they are organized into a whole organism, emphasizing function, evolution, and diversity of these basic features. Laboratories involve dissection of representative groups and demonstrations. Involves animals and/or animal tissues. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240.

College of Arts & Sciences Integrative Physiology

IPHY-3470 (3) Human Physiology 1

Focuses on scientific thinking, cell physiology, neurophysiology, endocrinology, immunology, and musculoskeletal physiology. The first semester of a two-semester sequence for IPHY majors. Prereqs., one year of general biology; one year of general chemistry. Prerequisites: Requires pre-requisite courses of IPHY 3410 and IPHY 3415 or IPHY 3460. Restricted to Integrative Physiology majors only.

College of Arts & Sciences Integrative Physiology

IPHY-3480 (3) Human Physiology 2

Focuses on the physiology of the respiratory, cardiovascular, urinary, digestive, and reproductive systems. The second semester of a two-semester sequence for IPHY majors. Prereqs., one year of general biology, one year of general chemistry, IPHY 3410 and 3415 or IPHY 3460; 3470. Recommended coreq., IPHY 3435. Prerequisites: Restricted to Integrative Physiology majors only.

College of Arts & Sciences Integrative Physiology

IPHY-3500 (2) Applied Clinical Research

Introduces fundamental concepts of clinical research to those interested in pursuing a career in medicine or medical research. In addition to lectures introducing students to research design, errors in research, and basic biostatistics, there will be significant emphasis on participation in on-going medical research at Denver Health Medical Center and The Children's Hospital. This unique experience will provide students with first-hand exposure to all aspects of clinical research. Prereqs., MCDB 1150 and 2150, or EBIO 1210 and 1220, and CHEM 3311. Recommended prereq., premedical focus and/or previous research experience.

College of Arts & Sciences Integrative Physiology

IPHY-3660 (3) Dynamics of Motor Learning

Focuses on information processing approaches and dynamical systems theory as explanations for human motor learning and the coordination of movement. Various topics are discussed from both perspectives including practice organization, attainment of elite

performance, and the production of novel movements. Approved for arts and sciences core curriculum: natural sciences.

College of Arts & Sciences Integrative Physiology

IPHY-3700 (3) Scientific Writing in Integrative Physiology

Takes a process-based approach to writing. Assignments and classroom experiences emphasize critical thinking, using scientific evidence and reasoning to construct original arguments, and applying conventions and problem-solving skills to craft successful documents. Prereq., IPHY 2800. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree majors only.

College of Arts & Sciences Integrative Physiology

IPHY-3800 (3) Forensic Biology

Introduces basic concepts of modern forensic science with emphasis on biological aspects such as forensic entomology, forensic botany, hair analysis, forensic anthropology, and forensic DNA analysis. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240; CHEM 1133 and 1134.

College of Arts & Sciences Integrative Physiology

IPHY-3810 (1) Forensic Biology Laboratory

Introduces basic laboratory techniques and procedures of modern forensic science with emphasis on biological aspects such as forensic entomology, forensic botany, hair analysis, forensic anthropology, and forensic DNA analysis. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240; CHEM 1133 and 1134. Coreq., IPHY 3800.

College of Arts & Sciences Integrative Physiology

IPHY-4010 (1-3) Seminar in Integrative Physiology

Introduces a small group of students to current research topics in integrative physiology, evaluation of current research, and discussion of critical issues. May be repeated up to 6 total credit hours when topics vary. Prereq., IPHY 2800. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Integrative Physiology

IPHY-4200 (3) Physiological Genetics and Genomics

Covers fundamental concepts in molecular genetics and genomics and their applications towards understanding genetic aspects of physiology and pathophysiology. Topics include structure and function of nucleic acids, pedigree analysis, genetic and genomic research tools, regulation of gene expression, gene mapping, pharmacogenetics, gene therapy, comparative and evolutionary genomics, animal

models and ethical issues in modern genomics. Same as IPHY 5200. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Integrative Physiology](#)

IPHY-4440 (4) Endocrinology

Introduces mammalian endocrine system. Course provides a thorough analysis of chemical communication by hormones and related bioregulators with emphasis on the major endocrine systems such as the thyroid, gonad, pituitary and the brain. Restricted to Integrative Physiology majors only. Prereq., IPHY 3470. Same as IPHY 5440. Prerequisites: Restricted to Integrative Physiology majors only.

[College of Arts & Sciences](#) [Integrative Physiology](#)

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Courses

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Subject **Number**

IPHY

IPHY-4470 (3) Biology of Human Reproduction

Anatomy and physiology of human reproduction, including gender determination, embryology, puberty, menstrual cycle, pregnancy, lactation, menopause, sexual behavior, sexual abnormalities and contraception. Open to nonmajors. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240.

[College of Arts & Sciences](#)
[Integrative Physiology](#)

IPHY-4480 (3) Comparative Reproduction

Focuses on comparative anatomy and physiology of reproductive system and the evolution of reproductive behavior in vertebrates and invertebrates. Topics include courtship, mating, fertilization, estrous and menstrual cycles, and environmental control of seasonal reproduction. Prereqs., MCDB 1150, 1151, 2150 and 2151, or EBIO 1210, 1220, 1230 and 1240. Recommended prereq., IPHY 3430 (non-majors only), 3450 or 3480 (IPHY majors only).

[College of Arts & Sciences](#)
[Integrative Physiology](#)

IPHY-4540 (5) Biomechanics

Applies the principles of physics and physiology to the analysis of human movement. Quantitative analysis of the forces, torques, mechanical energy, power impulses and momentum associated with human movement. Mechanical properties of muscles, tendons, ligaments, and bones. Restricted to Integrative Physiology majors only. Prereqs., MATH 1300 or 1310 or APPM 1350; PHYS 2010; IPHY 2800, 3410 or 3460; IPHY 3470. Prerequisites: Restricted to Integrative Physiology majors only.

[College of Arts & Sciences](#)
[Integrative Physiology](#)

IPHY-4580 (3) Sleep Physiology

Describes the physiology and neurobiology of sleep and impact of sleep, sleep deprivation, and sleep disorders on immune, endocrine, cardiovascular, respiratory, and neural systems, as well as examines changes in sleep across the life span. The integrative nature of sleep and circadian rhythms in normal physiological and cognitive function and their importance in health and disease processes will be emphasized. IPHY 4580 and 5580 are identical courses. Prereqs. for IPHY 4850: one year of biology, one year of chemistry, IPHY 2800 (or equivalent) and IPHY 3470. IPHY 5580 is restricted to graduate students only.

College of Arts & Sciences Integrative Physiology

IPHY-4600 (3) Immunology

Studies the immune system, a multi-cellular system that functions to protect us from disease. Introduces concepts associated with the development and function of individual cells of the immune system (T-cells, B-cells, neutrophils, dendritic cells, macrophages), as well as their integrative roles in physiology and host defense. Prereqs., one year of biology, one year of chemistry, IPHY 3470. Recommended prereq., IPHY 3060. Same as IPHY 5600. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree majors only.

College of Arts & Sciences Integrative Physiology

IPHY-4650 (5) Exercise Physiology

Examines physiological and biochemical adjustments that occur in the body with acute and chronic exercise. Topics center on physiological mechanisms pertaining to metabolic, cardiovascular, and hormonal alterations, the role of exercise in health and disease, soreness and fatigue, immune function, as well as exercise during varied environmental conditions. Restricted to students with 57-180 credits (Junior or Senior) Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree majors only. Prereqs., IPHY 2800; IPHY 3470; IPHY 3450 or 3480. Prereq. or coreq., IPHY 3410 or 3460. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree majors only.

College of Arts & Sciences Integrative Physiology

IPHY-4660 (3) Critical Thinking in Integrative Physiology

Covers specific integrative physiology topics in areas such as animal physiology, endothelial function, neurobiology, exercise immunology, and exercise physiology. May be repeated up to 6 total credit hours. Prereq., 13-hours of IPHY coursework. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree majors only.

College of Arts & Sciences Integrative Physiology

IPHY-4680 (3) Critical Thinking in Exercise Physiology

Covers specific exercise physiology topics such as cellular cause of fatigue and muscle soreness, heart disease, regulation of blood flow, diabetes, aging, training adaptations, exercise at high altitude, ergogenic aids, and excitation-contraction of muscle. Prereq., IPHY 4650. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree majors only.

IPHY-4720 (4) Neurophysiology

Explores the function of the nervous system, including how the properties of neurons influence nervous system activity, how the nervous system controls the activity of muscles and how the sensory effects of muscle activity influence the function of the nervous system.

Prereqs., one year of biology, one year of chemistry, IPHY 2800 (or equivalent), IPHY 3410 or 3460; IPHY 3470. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree majors only.

IPHY-4740 (3) Theory of Motor Skill Learning

Offers a critical analysis of motor learning theories, including Adam's closed loop theory, Schmidt's schema theory, and the influence of contextual interference on learning and performance. Also covers feedback and practice organization. Projects and presentations required. Prereq., junior standing. Same as IPHY 5740. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

IPHY-4860 (1-6) Independent Study: Undergraduate

Students may register for more than one section per term. May be repeated up to 8 total credit hours.

IPHY-4870 (1-3) Honors Thesis

Prereq., IPHY 2800 and 3700.

IPHY-4930 (1-6) Internship

Provides an opportunity for field/laboratory work in a variety of different settings. Prereq., junior or senior status and completion of at least two of the major core classes. Consult with faculty for approval. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

IPHY-5010 (1-3) Seminar in Integrative Physiology

Special topics spanning the broad scope of integrative physiology are covered in a seminar-style format. Presentations by current IPHY faculty are augmented by graduate student presentations of thesis and dissertation work. May be repeated up to 3 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Integrative Physiology

IPHY-5100 (2) Colloquium in Integrative Physiology

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree (C-IPHY) graduate students only.

College of Arts & Sciences Integrative Physiology

IPHY-5102 (2) Molecular Genetic Analysis of Physiology and Behavior

Utilizes molecular, classical, and quantitative genetics as a method for understanding the molecular basis of human and animal physiology and behavior. Required of first year students in Behavioral Genetics certificate program. Prereqs., EBIO 2070 or 2670, or MCDB 2150.

College of Arts & Sciences Integrative Physiology

IPHY-5200 (3) Physiological Genetics and Genomics

Includes a recitation section. Same as IPHY 4200 and PSYC 5200. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Integrative Physiology

IPHY-5232 (2) Molecular Genetics and Physiology

Covers fundamental mechanisms of gene action, including genome structure and regulation of gene expression. Discusses molecular techniques used to examine human genetic diseases. Emphasizes genetic diseases with behavioral, neurologic, and physiologic abnormalities. Prereq., IPHY/PSYC 5200 or instructor consent. Same as PSYC 5232.

College of Arts & Sciences Integrative Physiology

IPHY-5262 (3) Application of Bioinformatics and Genomics

Covers fundamentals of genome sequence and structure of genomes. Emphasis on the human genome, mechanisms of gene action, including genome structure and regulation of gene expression and bioinformatics. Utilizes genomic and molecular techniques used to examine human genetic diseases with behavioral, neurologic, and physiologic abnormalities. Recommended prereq., IPHY 5200.

IPHY-5300 (3) Statistical Genetics for Complex Traits

Focuses on the methods of mapping complex disease genes in both population and family-based samples. Topics include both linkage and association analyses of qualitative and quantitative phenotypes. Prerequisites: Restricted to Graduate Students only.

IPHY-5440 (4) Endocrinology

Same as IPHY 4440.

IPHY-5550 (3) Exercise Biochemistry

Examines the underlying biochemical mechanisms that are responsible for the physiological adaptations to short- and long-term dynamic exercise including carbohydrate, fat, and protein metabolism. The interaction of key biochemical alterations as it relates to disease (diabetes, obesity, and aging) and exercise will be addressed. Prereq., one year of chemistry. Prereq. or coreq., IPHY 4650 or instructor consent. Prerequisites: Restricted to Graduate Students only.

IPHY-5580 (3) Sleep Physiology

Describes the physiology and neurobiology of sleep and impact of sleep, sleep deprivation, and sleep disorders on immune, endocrine, cardiovascular, respiratory, and neural systems, as well as examines changes in sleep across the life span. The integrative nature of sleep and circadian rhythms in normal physiological and cognitive function and their importance in health and disease processes will be emphasized. IPHY 4580 and 5580 are identical courses. Prereqs. for IPHY 4850: one year of biology, one year of chemistry, IPHY 2800 (or equivalent) and IPHY 3470. IPHY 5580 is restricted to graduate students only. Prerequisites: Restricted to Graduate Students only.

IPHY-5600 (3) Immunology

Studies the immune system, a multi-cellular system that functions to protect us from disease. Introduces concepts associated with the development and function of individual cells of the immune system (T-cells, B-cells, neutrophils, dendritic cells, macrophages), as well as their integrative roles in physiology and host defense. Restricted to graduate students only. Same as IPHY 4600. Prerequisites: Restricted to Graduate Students only.

IPHY-5740 (3) Theory of Motor Skill Learning

Same as IPHY 4740. Prerequisites: Restricted to Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree (C-IPHY) graduate students only.

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Courses

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IPHY

IPHY-5800 (4) Advanced Statistics and Research Methods in Integrative Physiology

Introduces advanced statistical techniques important for analyzing data rising in biomedical research, including physiology. Statistical reasoning will be emphasized through problem solving and applications using statistical software packages. Restricted to Integrative Physiology graduate students only. Prereq., IPHY 2800. Prerequisites: Restricted to Integrative Physiology (IPHY) graduate students only.

College of Arts & Sciences Integrative Physiology

IPHY-5830 (3) Writing for the Research Scientist

Promotes understanding of the rhetorical goals, structure, design, and language for effective scientific texts, emphasizing research reports and grant proposals. Supports students in executing advanced cognitive processes in planning, drafting, and revising. Involves instructor-guided procedural facilitation and peer-review workshops based on students' current writing projects in courses and laboratory research. Prereq., basic proficiency in English. Restricted to graduate students.

College of Arts & Sciences Integrative Physiology

IPHY-5840 (1-6) Graduate Independent Study

Restricted to Integrative Physiology graduate students only. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Integrative Physiology (IPHY) graduate students only.

College of Arts & Sciences Integrative Physiology

IPHY-6010 (1-3) Seminar

Presents special topics in integrative physiology. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Integrative Physiology

IPHY-6650 (3) Cellular Cardiovascular Physiology

Focuses on the cellular control of cardiac and smooth muscle contraction, at rest and in response to acute and chronic exercise. Addresses certain pathophysiological and physiological adaptive mechanisms. Prereq., IPHY 4650.

College of Arts & Sciences Integrative Physiology

IPHY-6660 (3) Locomotion Energetics and Biomechanics

Critiques and discusses both classic and cutting edge scientific research in the area of terrestrial locomotion. Recommended prereqs., IPHY 4540, 4650 and graduate standing in IPHY or EBIO. Prerequisites: Restricted to Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree (C-IPHY) graduate students only.

College of Arts & Sciences Integrative Physiology

IPHY-6670 (2) Hypothesis Testing in Locomotion Biomechanics

Focuses on the scientific process including formulating and testing hypotheses in studies of locomotion. Students analyze primary articles to determine whether the studies tested hypotheses and to generate new hypotheses that logically follow from previous studies.

College of Arts & Sciences Integrative Physiology

IPHY-6680 (3) Matlab for Physiological and Biomechanical Research

This introduction to Matlab programming will teach the skills needed to write and modify programs for data acquisition and analysis, statistics, plotting, and simulation. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Integrative Physiology

IPHY-6830 (3) Professional Skills for the Research Scientist

Discusses grant and manuscript writing, scientific presentations, peer-review, setting up/directing a research laboratory, research ethics, mentoring and other professional skills. Restricted to Integrative Physiology graduate students only. Prerequisites: Restricted to Integrative Physiology (IPHY) graduate students only.

College of Arts & Sciences Integrative Physiology

IPHY-6840 (1-3) Research Project

Involves a scholarly investigation of a selected topic using literature and/or experimental techniques. Advisor required. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree (C-IPHY) graduate students only.

College of Arts & Sciences Integrative Physiology

IPHY-6940 (1) Master's Degree Candidate

College of Arts & Sciences Integrative Physiology

IPHY-6950 (1-6) Master's Thesis

Restricted to IPHY graduate students. Prerequisites: Restricted to Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree (C-IPHY) graduate students only.

College of Arts & Sciences Integrative Physiology

IPHY-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Restricted to IPHY graduate students. Prerequisites: Restricted to Integrative Physiology (IPHY) or Integrative Physiology Concurrent Degree (C-IPHY) graduate students only.

College of Arts & Sciences Integrative Physiology

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Courses

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All

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ITAL

ITAL-1010 (5) Beginning Italian 1.

The four skills of listening, speaking, reading, and writing are progressively developed in a predominantly oral presentation. Grammatical concepts are explained and practiced through dialogues, written exercises, and conversations. The cultural focus is on the personal world and life of students.

College of Arts & Sciences French & Italian Italian

ITAL-1020 (5) Beginning Italian 2

Continuation of ITAL 1010, with more difficult grammatical concepts explored. The cultural focus shifts to social and civic areas. Prereq., ITAL 1010 (min grade C-).

College of Arts & Sciences French & Italian Italian

ITAL-1400 (3) Medieval/Renaissance Women Writers in Italy and France

Introduces major literature through close readings of women's writings in their historical context. Offers a general introduction to women's status and roles in Italy and France. Taught in English. Same as FREN 1400. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian Italian

ITAL-1500 (3) That's Amore: Introduction to Italian Culture

Introduces students to representations of Italian society that have persisted through the ages. The course readings allow students to better understand how certain stereotypes about Italian society (e.g., Latin lover, Mafia) were born and persist in the present. Taught in English. Approved for GT-AH2. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences French & Italian Italian

ITAL-1600 (3) Strategies of Fear: Introduction to Italian Fantastic Literature

Traces the development of the fantastic theme in Italian Literature from its origins (late nineteenth century) to contemporary times. Analyzes the modes of reception and appropriation of non-Italian gothic and fantastic narrative traditions through which Italian writers have subverted the national literary model proposed by realist narrative. Approved for arts and sciences core curriculum: literature and the arts. Taught in English.

College of Arts & Sciences French & Italian Italian

ITAL-2110 (3) Intermediate Italian Reading, Grammar, and Composition 1

Enhances the skills learned in the first-year course and develops greater fluency in understanding and speaking. More emphasis is placed on reading and writing through the use of activities featuring cultural themes that present a realistic portrait of contemporary Italy. Taught in Italian. Prereq., ITAL 1020 (min grade C-). Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences French & Italian Italian

ITAL-2120 (3) Intermediate Italian Reading, Grammar, and Composition 2

Continuation of ITAL 2110. Some reading in Italian literature and culture with considerable practice in writing and speaking Italian. Fulfills the Graduate School language requirement for the Phd. Prereq., ITAL 2110 (min grade C-) or equivalent.

College of Arts & Sciences French & Italian Italian

ITAL-2130 (3) Introduction to Literary Analysis.

Increases student's ability to read and analyze literary texts by improving vocabulary and terminology. Students read short stories, essays, short plays, and poems to acquire critical skills and improve expression of opinions and arguments in Italian. Taught in Italian. Prereq or coreq., ITAL 2120 (min grade C-) or instructor consent required.

College of Arts & Sciences French & Italian Italian

ITAL-3015 (3) Advanced Composition 1

Teaches students to write in Italian in a variety of genres, focusing on the creative aspects of writing. Exercises and themes are drawn primarily from current events and culture (i.e., blogging, journaling, essays and films), but also allows students to develop their critical skills in other areas. Similar to ITAL 3010. Students may not receive credit for this course and ITAL 3010. Prereq., ITAL 2120 (min. grade C-) or instructor consent required.

College of Arts & Sciences French & Italian Italian

ITAL-3025 (3) Advanced Composition 2: Introduction to Literary Writing

Introduces students to complex forms of writing within Italian studies. Focuses on the analysis of literary genres (e.g., autobiography, essays, short stories) through a step-by-step process that allows students to craft advanced arguments in Italian. Studies will read Italian literary texts and write and revise in workshop format (e.g., peer review, collaborative assignments). Similar to ITAL 3020. Students may not receive credit for this course and ITAL 3020. Prereq., ITAL 3015 (min grade C-) or instructor consent required. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences French & Italian Italian

ITAL-3030 (3) Storia dell'arte: Advanced Composition/Conversation 3

Improves vocabulary and fluency in spoken Italian, and competence and confidence in correct and more sophisticated written Italian through the study of the history of Italian art. Exercises and themes focus on Italian Classical, Medieval, Renaissance, and Modern Art. Prereq., ITAL 2130 or 3010 (min grade C-). Instructor consent is required.

College of Arts & Sciences French & Italian Italian

ITAL-3040 (3) Italian Conversation Through Cinema

Taught in Italian, the course covers various topics of Italian Cinema from WWII to the present. Focus is on periods, genres, themes, and auteur/directors. Emphasis on review of language structures previously learned and acquisition of new vocabulary to enable students to discuss different aspects of Italian culture, in Italian. Prereq., ITAL 2120 (min grade C-) or equivalent. Instructor consent is required.

College of Arts & Sciences French & Italian Italian

ITAL-3140 (3) Readings in Italian Literature-20th Century

Covers a selected reading of major texts, prose, and poetry of 20th century literature. Emphasizes critical reading and analysis of modern and contemporary Italian literature in its literary and historical context. Taught in Italian. Prereq., ITAL 2130 (min grade of C-), or instructor consent.

College of Arts & Sciences French & Italian Italian

ITAL-3150 (3) Readings in Italian Literature-19th Century

Introduces students to 19th century literary history through a selected reading of major texts, prose, and poetry. Emphasizes critical reading and analysis of Italian literature in its literary and historical context. Taught in Italian. Prereq., ITAL 2130 (min grade C-), or instructor consent.

College of Arts & Sciences French & Italian Italian

ITAL-3160 (3) Readings in Italian Literature---Medieval and Renaissance

Covers a selected reading of major texts, prose, and poetry of Medieval and Renaissance literature. Emphasizes critical reading and analysis of texts in their literary and historical context. Taught in Italian. Prereq., ITAL 2130 (min grade C-) or instructor consent required.

College of Arts & Sciences French & Italian Italian

ITAL-4010 (3) Problems in Translation, Advanced Grammar, and Stylistics 1

Emphasizes practice in translating varying types of prose from Italian into English and English into Italian. Prereq., ITAL 2130 or 3010 (min grade C-).

College of Arts & Sciences French & Italian Italian

ITAL-4030 (3) Contemporary Italian Culture, Politics, and the Media.

Serves as an introduction to the study of the effect that politics and the media have in shaping Italian culture. Makes use of the World Wide Web for instruction. Taught in Italian. Familiarity with Internet helpful. Prereq., ITAL 2130 or 3010 (min grade C-) or instructor consent.

College of Arts & Sciences French & Italian Italian

ITAL-4040 (3) Business Italian Style

Provides an introduction to the Italian way of conducting business, with a close view on the company and its world through learning marketing and producing a real company project for the market. Analyzes topics of international marketing and trade using Italian and American economics websites. Focuses on building cross-cultural bridges between the U.S. and Italy to have smoother business relationships and enable students to participate more easily in joint international working teams. Prereq., ITAL 3010 (min grade C-) or instructor consent required.

College of Arts & Sciences French & Italian Italian

ITAL-4140 (3) The Age of Dante: Readings from The Divine Comedy

Focuses on close reading of Dante's poetry with emphasis on the intellectual, religious, political, and scientific background of the medieval world. Taught in English. Prereq., junior standing or instructor consent. Same as HUMN 4140. Credit not granted for this course and ITAL 4145 or 4147. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences French & Italian Italian

ITAL-4145 (3) The Age of Dante in Italian

Focuses on close readings of Dante's poetry with emphasis on the intellectual, religious, political, and scientific background of the medieval world. Taught in Italian. Prereq., ITAL 2130. Credit not granted for this course and ITAL 4140, HUMN 4140, or ITAL 4147. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian Italian

ITAL-4147 (3) Visualizing Dante's Inferno: A Global Seminar in Florence Italy

Focuses on close reading of Dante's Inferno. Examines the specific sites and art in Florence and nearby cities that Dante references in the Inferno, as well as visual representations of Hell created both before and after Dante's poem. Taught in English. Offered through the CU Study Abroad Program. Credit not granted for this course and HUMN/ITAL 4140 or ITAL 4145. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences French & Italian Italian

ITAL-4150 (3) The Decameron and the Age of Realism

Analyzes the rise of realism in the 13th and 14th century Italian literature and parallel manifestations in the visual arts. Focuses on Boccaccio's Decameron and contemporary realistic prose and poetry with emphasis on gender issues and medieval cultural diversity. Taught in English. Prereq., junior standing or instructor consent. Same as HUMN 4150. Approved for arts and sciences core curriculum: literature and the arts or human diversity.

College of Arts & Sciences French & Italian Italian

ITAL-4160 (3-5) Italian Literature Special Topics

Topics vary each semester. Consult the online Schedule Planner for specific topics. May be repeated up to 8 total credit hours for different topics.

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ITAL-4170 (3) Italian Literature Special Topics

Topics vary each semester. Consult the online Schedule Planner for specific topics. May be repeated up to 6 total credit hours on different topics.

ITAL-4200 (3) Topics in Italian Culture and Civilization from the Origins through the Renaissance

Taught in English. Topics vary. May be repeated up to 6 total credit hours on different topics.



Courses

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ITAL

ITAL-4250 (3) History of Italy

Survey of political, social, and intellectual history of Italy and its people. Taught in English. Same as HIST 4313.

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

ITAL-4280 (3) Topics in Italian Cinema

Examines different aspects of Italian cinema from the origins of neorealism to the present. May focus on a particular director, the culture of a specific period, or certain themes (e.g., the representation of women, the relationship between cinema and literature, or socio-aesthetic movements like Futurism or Fascism). Taught in English. May be repeated up to 6 total credit hours on different topics.

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

ITAL-4290 (3) Italian Culture Through Cinema

Examines the representations of Italian culture through its Cinema. Focusing especially on post-World War II cinema, we will examine how Italian filmmakers have portrayed Italian history and specific aspects of its culture (i.e., Fascism, post-war reconstruction, the Mafia, patriarchy) in the past fifty years. Approved for arts and sciences core curriculum:contemporary societies. Taught in English.

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

ITAL-4300 (3) Multiculturalism in Italy

Focuses on multiculturalism and difference in contemporary Italian society. The readings assigned for this course explore the experience

and co-existence of ethnic and religious minorities in Italy. Students will study how specific minorities live in a major Western-European country and will investigate the connotations that the concept of 'multiculturalism' takes in the Italian context. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian Italian

ITAL-4350 (3) From Wops to Dons to Movers and Shakers: The Italian-American Experience

Exposes students to the history of Italian immigration to the United States. By studying how Italians and Americans negotiated different ideas concerning identity, traditions and community, it helps students understand how Italians transformed themselves from a despised and marginalized minority into active participants in the success of the United States in the 20th and 21st centuries. Taught in English. Approved for arts and sciences core curriculum: U.S. Context.

College of Arts & Sciences French & Italian Italian

ITAL-4600 (3) Once Upon a Time in Italy

Examines the evolution of the Italian fairy tale from the 1500s to the 2000s in literature, theater, and film. Considers the tales and their authors in their social-historical context. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences French & Italian Italian

ITAL-4730 (3) Italian Feminisms: Culture, Theory, and Narratives of Difference

Studies Italian women writers, artists, and filmmakers. Literary and visual texts are analyzed in dialogue with readings of leading Italian gender theorists. Italian history and culture is reread by following the development of a discourse about women. Taught in English; readings in Italian for Italian majors. Same as HUMN 4730. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences French & Italian Italian

ITAL-4840 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences French & Italian Italian

ITAL-4930 (1-3) Languages Internship for Professions

Offers opportunities to use Italian skills in service to various sectors of the community, including private industry, government, and education. Prereq., ITAL 2120 (min grade C-) or instructor consent.

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

ITAL-4980 (3) Italian Senior Honors Thesis

The senior honors thesis is a 40 to 45 page original research paper, written in Italian, and constitutes a requirement for graduating with departmental honors. Prereqs., all third-year course requirements including FREN 3200. Recommended prereq., at least one course numbered ITAL 4100 or above.

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

ITAL-4990 (3) Senior Seminar

Preparation of a 15-page research paper in Italian presented to two members of the faculty and defended orally in class. Prereq., advisor consent. Recommended prereq., at least one course numbered ITAL 4100 or above.

[College of Arts & Sciences](#) [French & Italian](#) [Italian](#)

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Courses

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Subject **Number**

JOUR

JOUR-1001 (3) Contemporary Media Analysis

An introduction to the role of media in contemporary society, focusing on the cultural, political, economic, and historical context within which print and media technologies developed and how audiences interact with and influence the use of media. Restricted to Journalism & Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) or Arts and Sciences Open Option majors (XXAS) majors only.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Core Curr & General Electives](#)

JOUR-1871 (1-3) Special Topics for First-Year Students

Special studies in media that are specific for first-year students. May be repeated for a maximum of three credit hours.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Core Curr & General Electives](#)

JOUR-2011 (3) Media and Public Culture

Introduces the rise and development of mediated communication and its impact on and role within the formation of modern culture and public life. Restricted to JOUR majors.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Core Curr & General Electives](#)

JOUR-2403 (3) Principles of Advertising and Consumer Culture

Explores creative and strategic thinking plus the nature and functions of promotions, event-marketing, public relations, and advertising and their growing interdependence in a changing media landscape. Considers technology's impact and the effect of commercial culture

on an increasingly diverse society. Restricted to School of Journalism and Mass Communication (JOUR) or Marketing (MKTG) majors only. Prerequisites: Restricted to School of Journalism and Mass Communication (JOUR) or Marketing (MKTG) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-2601 (3) Principles of Journalism and Networked Communication

Surveys the history, practices and responsibilities of journalism in a democracy. Examines ethics, best practices in institutional and network settings, reporting and writing, international news systems, personal branding, and strategies for creating and distributing content across media platforms. Promotes the highest professional values and encourages students to be leaders who recognize the possibilities of journalism in a democratic society. Restricted to Journalism and Mass Communication (JOUR) majors only. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-3001 (3) Public Affairs Reporting

Grounds students in the basic newsgathering skills needed to work for news enterprises. Students learn techniques central to researching, reporting and writing stories for various media formats, including print, online, and broadcast journalism. Prereq., JOUR 2601 or 1002. Prerequisites: Requires prerequisite course of JOUR 2601 or 1002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3002 (3) Multimedia Reporting and Production

Equips students with the tools and techniques needed to produce multimedia content. Classroom instruction offers students historical, social and cultural contexts for the emergence of new media forms. Skills and practices covered include website design and construction, nonlinear video editing, digital graphics design, interactive information presentation, and multimedia reporting. Restricted to juniors/seniors. May be limited to JOUR majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3102 (3) Photojournalism I

Introduces the basic elements of visual communication. Covers the use of camera systems, digital imaging techniques and other aspects of photojournalism including law, ethics, history and critical decision-making. Prereq., JOUR 2601. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3403 (3) Branding and Positioning

Examines the theory and practice of branding, target segmentation and how the digital space and the rapid rise of consumer generated content have impacted brand management. Students analyze audience research, and the competitive set to develop brand positions and

benefits. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Advertising & Media Design](#)

JOUR-3453 (3) Introduction to Creative Concepts

Provides an opportunity to explore approaches to creative problem solving and visual thinking. Students draw on this theoretical foundation to develop advertising ideas in a variety of media for both commercial clients and non-profit organizations. Prereq., JOUR 2403. Prerequisites: Requires pre-requisite course of JOUR 2403. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 45 hours taken.

[Journalism & Mass Communication Program](#) [Journalism](#) [Advertising & Media Design](#)

JOUR-3463 (3) Advertising Media

Studies media, markets, and audiences, and their relationships to advertising messages. Prereqs., JOUR 3403 and 3453. Prerequisites: Requires pre-requisite courses of JOUR 3403 and 3453. Restricted to students with 57-180 credits (Junior or Senior) Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Advertising & Media Design](#)

JOUR-3473 (3) Advertising Research

Introduces students to applied research methods and provides practice in using research in marketing and advertising decision making. Prereqs., JOUR 3403 and 3453. Restricted to junior/senior JOUR, MKTG and ADVT majors.

[Journalism & Mass Communication Program](#) [Journalism](#) [Advertising & Media Design](#)

JOUR-3503 (3) Intermediate Creative Concepts

Explores both strategic and creative thinking and examines approaches to narrative storytelling as a tool for telling overarching brand stories. Students use the foundation to develop creative briefs and advertising campaigns. Prereqs., JOUR 3403, 3453 and instructor consent. Coreq., JOUR 4513. Prerequisites: Prereq., JOUR 3453 and instructor consent. Coreq., JOUR 4513.

[Journalism & Mass Communication Program](#) [Journalism](#) [Advertising & Media Design](#)

JOUR-3552 (3) Editing and Presentation

Explores copy editing, graphic principles and processes, new media technology. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) majors only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Print & Online Journalism](#)

JOUR-3604 (3) Radio and Television News

Covers principles and techniques involved in the preparation of news for broadcasting. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3614 (3) Principles of Audio Production

Introduces audio production techniques using digital technologies. Students learn to apply fundamental principles to create professional radio and online programs including podcasting. Restricted to Journalism majors with a minimum of 45 hours taken. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 45 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3644 (3) Principles of Television Production

Emphasizes the use of video technologies in both field and studio production, camera and editing work, producing and directing for professional program production. Prereq., JOUR 2601. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 57 hours taken. Prerequisites: Requires pre-requisite course of JOUR 2601. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 57 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3674 (3) Television Production 2

Covers studio productions for "Newsteam Boulder." Students also do field projects to sharpen their writing, video production, and editing skills. Prereq., JOUR 3644. Prerequisites: Requires pre-requisite course of JOUR 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-3771 (3) Media and Communication History

Examines the historical development of various communication technologies (printing press, photography, film, radio, television, computers, Internet); their impact on culture (forms of expression and social relationships); and their relation to various conceptions of the public (citizens, audiences, consumers, markets). Draws on history to explore current issues in media, popular culture and their relation to public life. Prereq., junior or senior standing. May be limited to majors.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-3902 (1-3) Newspaper Practicum

Gives students the opportunity to participate in newswork on Campus Press. May be repeated up to 6 total credit hours. Instructor consent required.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-3913 (1-3) Advertising Practicum

Provides the opportunity to do advertising work outside existing classes. May be repeated up to 6 total credit hours. Instructor consent required.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4002 (3) Reporting 2

Assumes mastery of basic reporting and writing skills. Students produce more sophisticated stories on a variety of topics. Prereq., JOUR 3001. Prerequisites: Requires pre-requisite course of JOUR 3001. Restricted to students with 57-180 credits (Junior or Senior) News Editorial (NSED-BSJR or JNED-BSJR) or Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4102 (3) Photojournalism Portfolio

Advanced course intended to give students a forum in which technical skills will be brought to professional standards. Build a polished portfolio of work to present to editors and buyers. Prereq., JOUR 3102. Prerequisites: Requires a prerequisite course of JOUR 3102.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4201 (3) Media, Culture and Globalization

Surveys the political and economic structures of media system in developed and developing countries and discusses the impact of privatization, ownership consolidation, and globalization on the flow of information across national borders. Also looks at how global media flows and counter-flows affect conceptions of nationhood and cultural identity. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4211 (3) East Asian Media and Culture

Offers an understanding of the various people, cultures and nations of East Asia through their media systems. Provides a critical overview of the historical, cultural, social, political and economic dimensions of East Asian communication systems in today's digitally

connected/disconnected world. Restricted to junior/senior SJMC majors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

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JOUR

JOUR-4272 (3) Principles of Public Relations

Introduces the economics, ethics, history, impact, practice, and social context of the public relations industry in America. Includes an analysis of public relations in agencies, corporations, political campaigns, social service organizations, universities, and other venues. Emphasizes writing for public relations, including fact sheets, press releases, reports, and speeches. Same as JOUR 5272. Restricted to Journalism majors with a minimum of 57 hours taken. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 57 hours taken.

[Journalism & Mass Communication Program](#)
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JOUR-4282 (3) Public Relations Strategy and Campaigns

Develops and applies public relations programs, from identification of the problem through execution of public relations techniques. Prereq., JOUR 4272. Same as JOUR 5282. Prerequisites: Requires a prerequisite course of JOUR 4272.

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JOUR-4301 (3) Media Ethics

Provides students with an overview of the theories, ethics codes, and analytical models that are used in journalism, public relations, and advertising. Introduces students to a variety of ethical issues that can arise across media professions, as well as the industry practices that can lead to ethical lapses, and teaches students how to challenge those practices. Same as JOUR 5301. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

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JOUR-4311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4321 (3) Media Institutions and Economics

Focuses on the institutions and practices of the media industries. Surveys the histories, structures, and activities of these organizations and the contemporary issues surrounding them. Same as JOUR 5321. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Studies the construction, interconnections, and replications of gender, race, class, and sexuality in popular culture and how these constructs become cultural norms and mores. Uses critical methods with a focus on producing responsible viewers and readers. Same as JOUR 5331, WMST 4331. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) School of Journalism & Mass Communication majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4341 (3) International Media and Global Crises

Examines strengths and limits on medias role in globalized crises (e.g. financial, climate change, health) in light of changing distribution of global power. Introduction to current crises; context-analytical approach to media technologies, financing and uses; application to national cases. Restricted to JOUR and IAFS juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Journalism & Mass Communication (JOUR) or International Affairs (IAFS) majors only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4344 (3) Video Documentary Production

Designed to give students the experience of researching, writing, shooting and editing their own documentaries. Prereq., JOUR 3644. Same as JOUR 5344. Prerequisites: Requires a prerequisite course of JOUR 3644.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4351 (3) Reporting Wars, Disasters, and Peace

Explores how journalists report international breaking news with a focus on war, disaster and peace and how these news events affect peoples' lives, governmental decisions and news media operations. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4354 (3) TV Reporting

Students learn basic broadcast reporting skills---where to find news and how to cover it, how to analyze and organize news stories. Skills are linked with advanced concepts of shooting and editing videotape in order to produce news stories on deadline. Prereqs., JOUR 3604 and 3644. Prerequisites: Requires pre-requisite courses of JOUR 3604 and 3644. Restricted to students with 57-180 credits (Junior or Senior) Broadcast News (BCNS-BSJR or JBCN-BSJR) majors only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4361 (3) TV and the Family in American Culture and Society

Examines the history and character of two central institutions in American society--the family and television--to gain deeper understanding of their formative and enduring roles. Topics include: intersecting histories of the family and television; economic logic of the TV industry and programming; representations of the family in television programming; how families use and interact with television. Prerequisites: Restricted to Program in Journalism and Mass Communication students with a minimum of 73 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4403 (4) Advertising Campaigns

Gives students the opportunity to work in small groups to develop material for an actual client. Students examine basic principles of group dynamics and effective teamwork while conducting research, developing strategies and creating a multimedia campaign. All work is presented to the client. Prereq., JOUR 3463 or 3503. Prerequisites: Requires pre-requisite course of JOUR 3463 or 3503. Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors with a minimum of 85 hours.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4453 (3) Advertising and Society

Examines criticisms and contributions of advertising in society and the economy. Same as JOUR 5453.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4502 (3) Reporting 3

Involves writing news and features about actual events for publication under deadline pressure. Lab to be arranged. Prereqs., JOUR 3552 and 4002. Restricted to News Editorial majors and with a minimum of 85 hours taken. Same as JOUR 5502. Prerequisites: Requires pre-requisite courses of JOUR 3552 and 4002. Restricted to News Editorial (NSED-BSJR or JNED-BSJR) majors and with a minimum of 85 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4503 (3) Advanced Creative Concepts

Builds on skills acquired in JOUR 3503 and 4513 to help students enhance their conceptual abilities and generate both print and integrated multimedia campaigns. Students work in teams to develop an extensive body of work that's exhibited in an awards show judged by advertising professionals. Prereqs., JOUR 3503 and 4513 and instructor consent.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Advertising & Media Design](#)

JOUR-4513 (3) Art Direction

Explores theories of visual communication, the visual imagination, and key principles of design. Develops students ability to express ideas through images and to create both effective visual concepts and layouts for a variety of media. Prereq., JOUR 3453 and instructor consent. Coreq. JOUR 3503.

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JOUR-4523 (3) Portfolio

Gives students an opportunity to develop an extensive body of work. Students create integrated campaigns, which include print, digital and guerilla ideas. Final portfolios are critiqued by both faculty and outside reviewers. JOUR 4503 and instructor consent.

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JOUR-4533 (3) Applied Consumer Insights

Provides an opportunity to use and master quantitative and qualitative research methods. Students conduct research and analyze data to determine the targets relationship with specific product categories and identify the emotional and practical needs that motivate purchase. Prereqs., JOUR 3403, 3453. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

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JOUR-4543 (3) Strategic Brand Management

Examines the theory of branding: what brands are, how brands are created and measured, as well as strategies for managing brands and brand communication. Prereq., JOUR 3463. Restricted to Advertising or Marketing majors only with a minimum of 57 hours taken. Prerequisites: Restricted to Advertising (ADVT-BSJR or JADV-BSJR) or Marketing (MKTG) majors only with a minimum of 57 hours taken.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Advertising & Media Design](#)

JOUR-4562 (3) Digital Journalism

Builds upon digital production skills through the creation of multimedia project. Applies media theory to evaluate digital media content and explore how digital forms influence the news industry, politics, culture, and society. Prereq., JOUR 3002. Same as JOUR 5562.

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Print & Online Journalism](#)

JOUR-4602 (3) Editorial, Commentary and Opinion Writing

Concentrates on several of the subjective areas of journalism. Emphasizes editorial and column writing, editorial pages and blogging.

Prereq., JOUR 3001. Same as JOUR 5602. Prerequisites: Requires a prerequisite course of JOUR 3001.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Print & Online Journalism](#)

JOUR-4614 (1-3) Advanced Audio Practices

Applies advanced skills in producing in-depth audio programming for radio stations in Colorado and for weekly discussion-critique sessions. Prereq., JOUR 3614.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Broadcast Journalism](#)

JOUR-4624 (4) News Team

Students participate in Newsteam Boulder a program broadcast live over the Boulder cable television system. Prereq., JOUR 4354. Same as JOUR 5624. Prerequisites: Requires pre-requisite course of JOUR 4354. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Broadcast News (BCNS) majors only.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Broadcast Journalism](#)

JOUR-4634 (1-3) Broadcast Projects

Covers interpretation, preparation, and/or reporting in programs for broadcast media. Prepares radio or television documentaries and informational/entertainment programs. Prereqs., JOUR 3604 and 3644, or instructor consent.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Broadcast Journalism](#)

JOUR-4651 (3) Media Law

Studies state and federal laws and court decisions that affect the media in order to develop knowledge of media rights and responsibilities and an understanding of the legal system. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Broadcast Journalism](#)



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JOUR

JOUR-4674 (1-3) Television Production 3

Provides in-depth experience in directing and producing television programs. Prereq., JOUR 3674. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 85 hours taken. Prerequisites: Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 85 hours taken.

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JOUR-4684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production. Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Requires a prerequisite course of JOUR 3644. Restricted to Broadcast News (BCNS-BSJR or JBCN-BSJR) or Broadcast Production (BCPM-BSJR or JBCP-BSJR) majors only with a minimum of 75 hours taken.

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JOUR-4702 (3) Arts/Cultural Reporting and Criticism

Emphasizes composition of criticism for the performing arts and other areas of entertainment. Prereq., JOUR 3001. Same as JOUR 5702.

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JOUR-4711 (3) Media and Culture

Examines culture in the form of discourse, symbols, and texts transmitted through the media. Explores the relationship between such mediated culture and social myth and ideology. Same as JOUR 5711.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4791 (3) Media and the Public

Provides an overview of how publishing in print and electronic forms has been tied closely to democratic ideals for centuries. Explores how the idea of the public is central to the theory and practice of media politics, and how the contested concepts of "the public sphere" and "public opinion" have long been linked to debates about the proper relationship between media and democratic citizenship. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5791. Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4802 (3) Magazine and Feature Writing

Provides practice in writing freelance articles. Considers types, sources, methods, titles, illustrations, and freelance markets. Students submit work for publication. Prereq., JOUR 3001. Restricted to Journalism majors with a minimum of 75 hours taken. Same as JOUR 5802. Prerequisites: Requires prerequisite course of JOUR 3001. Restricted to Journalism and Mass Communication (JOUR) majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4822 (3) Reporting on the Environment

Involves reporting and writing about the environment by taking into account the scientific, technological, political, economic, and cultural dimensions of environmental subjects. Same as JOUR 5822.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4841 (1-4) Undergraduate Independent Study

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4871 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-4872 (1-3) Special Topics: Print

Same as JOUR 5872. Prerequisites: Restricted to News-Editorial (NSED-BSJR or JNED-BSJR) students with 87-180 credits (Senior, Fifth Year Senior).

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-4873 (1-3) Special Topics

Restricted to Journalism majors with a minimum of 75 hours taken. Prereqs., JOUR 3453, 3463, and 3473. Prerequisites: Restricted to Advertising (ADVT) majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Advertising & Media Design

JOUR-4874 (1-3) Special Topics

Prerequisites: Restricted to School of Journalism and Mass Communication majors with a minimum of 75 hours taken.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4875 (6) Special Topics: Boulder Digital Works

May be repeated up to 24 credit hours. Pass/fail only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-4931 (1-6) Internship

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5001 (1-4) Research in Journalism

Offers students the opportunity to participate in research projects with faculty members or pursue their own primary research interests.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5102 (3) Photojournalism Portfolio

Same as JOUR 4102.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5201 (3) Media, Culture and Globalization

Same as JOUR 4201.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5272 (3) Principles of Public Relations

Same as JOUR 4272.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5282 (3) Public Relations Strategy and Campaigns

Prereq., JOUR 5272 or instructor consent. Same as JOUR 4282. Prerequisites: Restricted to Journalism and Mass Communication (JOUR) majors only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5301 (3) Media Ethics

Same as JOUR 4301.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5311 (3) Media Criticism

Introduces the critical perspectives most often employed in qualitative media analysis: semiology, structuralism, Marxism, psychoanalytical criticism, sociological criticism, etc. Texts from contemporary print and broadcast media. JOUR 4311 and 5311 are the same course. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5321 (3) Media Institutions and Economics

Same as JOUR 4321.

JOUR-5331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Same as JOUR 4331.

JOUR-5344 (3) Video Documentary Production

Same as JOUR 4344.

JOUR-5453 (3) Advertising and Society

Same as JOUR 4453.



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JOUR

JOUR-5502 (3) Newsgathering 2

Prereqs., JOUR 5511 and 5552. Restricted to majors. Same as JOUR 4502. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5552 and is restricted to JOUR graduate students only.

[Journalism & Mass Communication Program](#)
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JOUR-5511 (3) Newsgathering 1

Covers problems and practice in reporting news of government, politics, the courts, and industry, business, science, and other areas involving public issues. For graduate students only. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

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[Core Curr & General Electives](#)

JOUR-5512 (3) In-Depth Reporting

Shows how to dig beneath the surface of issues and events. Focuses on research, interviewing, and writing. Prereq., JOUR 5511.

[Journalism & Mass Communication Program](#)
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[Print & Online Journalism](#)

JOUR-5514 (3) Newsgathering for Television

Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Covers principles and techniques involved in the preparation of news for broadcasting. Introduces the use of television equipment. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5521 (3) Precision Journalism

Instructs students in computer-assisted reporting, including a knowledge of commercial databases, global information networks, and the use of spreadsheets to analyze census data and other complex information. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5524 (3) Television Investigative Reporting

Covers how to produce quality, substantive, in-depth stories for television. Covers the basics of investigative reporting, research, and working with sources.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5552 (3) News Editing

Discusses principles and practice in copy editing and writing headlines for local and wire stories. Practice in page makeup, picture editing, and electronic editing. Prereq., JOUR 3001. Restricted to majors.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5562 (3) Digital Journalism

Same as JOUR 4562. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5602 (3) Editorial, Commentary and Opinion Writing

Prereq., JOUR 5511. Same as JOUR 4602. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5624 (4) News Team

Prereqs., JOUR 5511 and 5514. Same as JOUR 4624. Prerequisites: Requires prerequisite courses of JOUR 5511 and 5514.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5634 (1-3) Broadcast Projects

Prereq., instructor consent. Same as JOUR 4634. Prerequisites: Restricted to Journalism & Mass Communication graduate students only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5651 (3) Mass Communication Law

Studies state and federal laws and court decisions that affect mass communication in order to develop knowledge of mass media rights and responsibilities and an understanding of the legal system.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5684 (3) Advanced Camera and Editing

Emphasizes the advanced techniques in digital video camera usage and digital editing for professional broadcast video production.

Prereq., JOUR 3644. Restricted to Broadcast News or Broadcast Production majors only with a minimum of 75 hours taken. JOUR 4684 and 5684 are the same course. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-5702 (3) Arts/Cultural Reporting and Criticism

Prereq., JOUR 5511. Same as JOUR 4702. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5711 (3) Media and Culture

Same as Jour 4711.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5791 (3) Media and the Public

Same as JOUR 4791.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5802 (3) Magazine and Feature Writing

Prereq., JOUR 5511. Same as JOUR 4802. Prerequisites: Requires a prerequisite course of JOUR 5511.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5812 (3) Science Writing

Helps students acquire the basic skills and knowledge required of science journalists. Also examines issues of scientific importance such as climate change, the nature of scientific knowledge, and how science is covered in various media. Prerequisites: Restricted to students with 87-180 credits (Seniors) or graduate students only.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5822 (3) Reporting on the Environment

Same as JOUR 4822.

Journalism & Mass Communication Program | Journalism | Print & Online Journalism

JOUR-5841 (1-3) Graduate Independent Study

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5851 (1-6) Graduate Professional Project

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5861 (3) Visual Communication

Visual communication involves understanding both perception of messages and construction of them. Students analyze their visual thinking abilities and develop habits of visual analysis and criticism, as well as visual communication skills. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-5871 (1-3) Special Topics

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

JOUR-5872 (1-3) Special Topics: Print

Same as JOUR 4872. Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

JOUR-5873 (1-3) Special Topics: Advertising



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JOUR-5874 (1-3) Special Topics: Electronic Media

Prerequisites: Restricted to Journalism & Mass Communication (JOUR) or Communication (COMC) graduate students only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Broadcast Journalism](#)

JOUR-5931 (1-3) Internship

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-6051 (3) Media Theory

Studies theories and perspectives of mass communication and explores the role of mass media in society. Prerequisites: Restricted to Journalism & Mass Communication (JOUR), Communication (COMM or COMC) or Telecommunications (TELE) graduate students only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-6061 (3) Mass Communication Research

Continuation of JOUR 6051, emphasizing experimental and survey research methods.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-6071 (3) Critical Theories of Media and Culture

Introduction to critical theories and analysis of media and popular culture. Examines major theoretical traditions and/or theorists that significantly inform media studies (e.g., culturalism, structuralism, Marxism, critical theory, feminism, psychoanalysis, post-structuralism) and applies these to media analysis and criticism. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6201 (3) Global Media and Culture

Covers mass communication within the international system, including similarities and differences in functions, facilities, and content; social theories of the press; and the international flow of mass communication. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6211 (3) Communication and International Development

Studies and analyzes communications technologies and techniques used in addressing social problems in developing countries.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6301 (3) Communication, Media, and Concepts of the Public

Introduces students to historical and contemporary uses of fundamental concepts in research and theory about media institutions, particularly public, community, mass, publicity, public space, public opinion, public interest, and the public sphere.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6311 (3) Seminar: Freedom of Expression

Studies free-speech issues in the context of current and historical philosophical foundations for freedom of expression.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6321 (3) Literary Journalism

Analyzes the work of journalists who became some of the greatest fiction writers of the 19th and 20th centuries, and examines the increasingly indistinct lines between journalism and narrative fiction. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6331 (3) Political Communication

Explores the dynamic relationships involving media and politics, focusing primarily on the American political system. Readings and seminar discussion incorporate normative and empirical perspectives on the media-politics complex. Areas covered include media effects on public opinion and policy, uses of media in governance, journalism sociology, coverage of elections, and implications of interactive media for governance and civic participation. Prerequisites: Restricted to Graduate Students only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-6341 (3) Children and the Media

Examining the concepts of children and childhood from the historical, social, cultural, economic and political perspectives, this course explores the interaction between mass media and the socialization and cultivation process of children and youth. Many theoretical traditions are used as a framework to study a variety of issues, such as multicultural literature for children and Disney's role in storytelling, and tween movies and the tweens. Prerequisites: Restricted to Graduate Students only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-6551 (3) Telecommunication Policy

Surveys historical and contemporary developments in telecommunications policy, emphasizing social and cultural dimensions, and focusing primarily on the context of the United States.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-6651 (3) Media Law

Graduate seminar in communications law. Studies changing law and applied legal research techniques. Prerequisites: Restricted to Graduate Students only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-6661 (3) Media Ethics and Responsibility

Develops a theoretical framework with which to recognize and analyze ethical issues as they arise in the media. Prerequisites: Restricted to Graduate Students only.

[Journalism & Mass Communication Program](#) [Journalism](#) [Core Curr & General Electives](#)

JOUR-6671 (3) Media, Myth, and Ritual

Anthropological and interpretative exploration of cultural practices of media audiences. Addresses theoretical and methodological implications of studying audiences from a culturalist perspective, with particular focus on media audience practices. Students engage in field research projects related to course content. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6711 (3) Mass Media and Pop Culture

Inquiry into relationship of the arts and the mass media, including study of critics, their function, and their works. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6721 (3) Message Effectiveness

Investigates how mass media messages work in terms of such effects as perception, learning and comprehension, and persuasion. Effectiveness is analyzed in terms of how well mass communication messages meet their objectives.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6771 (3) History of Mass Communication

Examines specialized areas in the history of mass communication. Prerequisites: Restricted to Graduate Students only.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6781 (3) Economic and Political Aspects of Mass Communication

Discusses economic problems and political issues relevant to newspapers, magazines, broadcasting, and CATV. Examines problems of telecommunications and the impact of future technology on mass communication.

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-6940 (1) Master's Degree Candidate

Journalism & Mass Communication Program | Journalism | Broadcast Journalism

JOUR-6951 (1-6) Master's Thesis

Journalism & Mass Communication Program | Journalism | Core Curr & General Electives

JOUR-7011 (3) Proseminar in Communication Theory 1

Introduces the principal concepts, literature, and theoretical and paradigmatic perspectives of media studies and mass communication and their ties and contributions to parallel domains in the social sciences and humanities. Prerequisites: Restricted to Communication (COMM or COMC) graduate students only.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Core Curr & General Electives](#)

JOUR-7021 (3) Proseminar in Communication Theory 2

Continuation of JOUR 7011. Prereq., JOUR 7011.

[Journalism & Mass Communication Program](#) | [Journalism](#) | [Core Curr & General Electives](#)

JOUR-7051 (3) Qualitative Research Methods in Mass Communication

Examines various methods of qualitative data gathering and analysis in the mass media context. Prerequisites: Restricted to Graduate Students only.

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JOUR

JOUR-7061 (3) Quantitative Research Methods in Mass Communication

Examines various methods of quantitative data gathering methods and analysis in the mass media context.

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JOUR-7871 (3) Special Topics

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JOUR-8991 (1-10) Doctoral Thesis

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JPNS

JPNS-1010 (5) Beginning Japanese 1

Provides a thorough introduction to modern Japanese, emphasizing speaking, listening, reading, and writing in a cultural context.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-1012 (3-4) Introduction to Japanese Civilization

An interdisciplinary introduction from ancient to modern times. Arts, literature, politics, social relations, religion, and material culture are studied in terms of significant themes and ideas pertaining to the civilization of Japan. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese Courses in English](#)

JPNS-1020 (5) Beginning Japanese 2

Continuation of JPNS 1010. Prereq., JPNS 1010 (min grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-1051 (3) Masterpieces of Japanese Literature in Translation

Surveys Japanese thought and culture through careful reading and discussion of selected masterworks of Japanese literature in translation. Texts include significant works of poetry, fiction, drama, diaries, and essays, from ancient times to the present. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-2110 (5) Intermediate Japanese 1

Continued study of oral and written modern Japanese in a cultural context. Prereq., JPNS 1020 or equivalent (min grade C) or instructor consent. Meets MAPS requirement for foreign language.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-2120 (5) Intermediate Japanese 2

Continuation of JPNS 2110. Prereq., JPNS 2110 (min grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-2441 (3) Japanese Culture through Film and Anime

Examines 20th century Japanese culture through cinematic and animated films. Studies films by Ozu, Kurosawa, Mizoguchi, and contemporary animators Tezuka, Miyazaki, and Kon Satoshi. Considers cultural issues raised in film and anime in light of modern Japanese history and literature. Requires no knowledge of Japanese.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3110 (5) Advanced Japanese 1

Enhances student competence and performance in Japanese language in a holistic and integrative manner. Prereq., JPNS 2120 (min grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-3120 (5) Advanced Japanese 2

Continuation of JPNS 3110. Enhances student competence and performance in Japanese language in a holistic and integrative manner. Prereq., JPNS 3110 (min grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-3200 (3) Adv Wrtg Topics on Chinese & Japanese Literature and Civilization

Provides an introduction to the academic study of Chinese and Japanese literature and culture with a focus on writing skills in English through a survey of standard academic writing conventions. Review and assessment of selected textual materials, class presentation, critique, and revision. Recommended for Chinese and Japanese majors and minors. Approved for arts and sciences core curriculum: written communication. CHIN 3200 and JPNS 3200 are the same course.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-3331 (3) Business Japanese

Designed to teach Japanese with emphasis on using Japanese for professional purposes. The course aims to foster the skills and the knowledge of effective cross-cultural and interpersonal communication in Japanese and to develop intercultural competence in business contexts. Prereq., JPNS 2120 (min. grade C) or instructor consent. Recommended prereq., JPNS 3110 (min. grade C).

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-3441 (3) Language and Japanese Society

Deals with major linguistic characteristics of Japanese as a medium of communication. Discusses complex linguistic processing of social status and empathy relationships, for example, with reference to the structure of Japanese society from ancient to contemporary times. Requires no knowledge of Japanese. Recommended prereq., JPNS 2120.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3811 (3) Love, Death, and Desire: Classical Japanese Literature in Translation

Surveys the major works and authors of classical Japanese literature, both poetry and prose, from the earliest historical records and literary anthologies through the Heian period (784--1185). Taught in English. Recommended prereq., JPNS 1051. Same as HUMN 3811.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3821 (3) Monsters, Monks, and Mayhem: Medieval Japanese Literature in Translation

Surveys the major works and authors of medieval Japanese (poetry, prose, and drama) from the Kamakura and Muromachi periods (1185--1600). Taught in English. Recommended prereq., JPNS 1051.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3831 (3) The Floating World of Play and Passion: Early Modern Japanese Literature in Translation

Surveys the major works, authors, and genres of literature from the Tokugawa through Meiji periods in their historical and cultural contexts. Attention is given to various approaches of literary analysis and interpretation. Taught in English. Recommended prereq., JPNS 1051.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3841 (3) Tradition and Transgression: Modern Japanese Literature in Translation

Surveys the major works, authors, and genres of literature from the late Meiji period and 20th century in their historical and cultural contexts. Attention is given to various approaches of literary analysis and interpretation. Taught in English. Recommended prereq., JPNS 1051. Same as HUMN 3841.

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-3851 (3) Studies in Japanese Popular Culture

Introduces aspects of Japanese popular culture from the early 1990s economic collapse until the present through a variety of artistic mediums including manga, anime, literature, live-action cinema, video gaming, music, and the visual arts. Taught in English. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences Asian Languages & Civilizations Japanese Courses in English

JPNS-4030 (3) Japanese Syntax

Deals with syntactic phenomena from five areas of Japanese grammar that cause the most difficulty for learners. Their characteristics are explored in forms and discursal functions that go beyond the explanations in basic, prescriptive grammars of Japanese. Prereq., JPNS 3120 or 4120, or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4070 (3) Second Language Acquisition of Japanese

Studies language acquisition theories and research on Japanese as a second language (JSL). Covers the issues in JSL from linguistic, cognitive, and sociolinguistic perspectives: orthography, grammar, phonology, and vocabulary in the contexts of teaching and learning JSL. Prereq., instructor consent. Same as JPNS 5070.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4080 (3) Kanji in Japanese Orthography

Covers the issues in kanji research from historical, sociolinguistic, linguistic, cognitive perspective and vocabulary acquisition theories in the context of teaching and learning the Japanese language. Same as JPNS 5080.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4110 (3) Advanced Readings in Modern Japanese 1

Surveys a variety of material written in modern Japanese, including texts from literature, the social sciences, religion, and cultural history. Emphasizes content and style. Texts and selections vary from year to year. Prereq. JPNS 3120 (min grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4120 (3) Advanced Readings in Modern Japanese 2

Continuation of JPNS 4110. Texts and selections vary from year to year. Prereq., JPNS 4110 (min grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4210 (3) Contemporary Japanese 1: Current Issues

Offers intensive review of Japanese language skills beyond the first eight semesters, and cultivates further proficiency. Readings will be selected from a wide range of contemporary writings that reflect and represent issues in Japanese as well as global communities. The course emphasizes all skills: reading, listening, writing, speaking, and translation. Instructional technology is extensively integrated into the curriculum. Prereq., JPNS 4120 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4220 (3) Contemporary Japanese 2: Current Issues

Continues developing Japanese language skills beyond the first eight semesters. Cultivates further proficiency at an advanced and superior level. Readings are selected from a wide range of contemporary writings that reflect and represent issues in Japanese as well as global communities. Emphasizes all skills: reading, listening, writing, speaking, and translation. Instructional technology is extensively integrated into the curriculum. Prereq., JPNS 4210 or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4300 (3) Open Topics: Readings in Japanese

Examines selected texts on a particular topic taught by regular or visiting faculty. Topics change each term. May be repeated up to 6 total credit hours. Prereq., instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

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JPNS

JPNS-4310 (3) Classical Japanese 1

Introduces reference tools for reading classical Japanese, and grammar, vocabulary, and use of scripts in premodern Japanese, focusing on the 10th century Taketori Monogatari and the 13th century Hojoki. Prereq., JPNS 3110. Recommended prereqs., JPNS 3120, 3811, 3821.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-4320 (3) Classical Japanese 2

Continuation of JPNS 4310. Surveys changes in Japanese literary language from the Nara (eighth century) to Meiji (late 19th century) periods. Attention given to changes in grammar, vocabulary, and use of scripts in premodern Japanese. Introduces representative works of classical Japanese literature of all periods. Prereq., JPNS 4310.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-4900 (1-3) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-4950 (3) Honors Thesis

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-4980 (1) Practical Issues in Japanese Language Pedagogy

Focuses on practical issues in Japanese language pedagogy for students who will serve as teaching assistants in Japanese language class. Examines the connection between theory and practice as well as practical methods for teaching Japanese. Discusses how to teach Japanese as a second language in a communicative approach and how to assess student language learning. Prereq., JPNS 4120 or equivalent. JPNS 4980 and 5980 are the same course.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5010 (3) Bibliography and Research Methods

Introduces research materials on Japan in Japanese and Western languages, including bibliographic tools, style sheets, and library resources. Overview of secondary sources and publication outlets/methods of disseminating research. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5020 (3) Methods of Teaching Japanese

Surveys pedagogical theory and methods for the teaching of Japanese as a second language, including issues of presentation, interaction, and evaluation. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5050 (3) Japanese Sociolinguistics

Surveys past achievements and current research concerns of Japanese sociolinguists in areas such as speech varieties, language behavior and attitude, and linguistic contact and change, as well as their guiding theories and central fieldwork methods. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5070 (3) Second Language Acquisition of Japanese

Prereq., graduate standing or instructor consent. Same as JPNS 4070. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5080 (3) Kanji in Japanese Orthography

Prereq., graduate standing or instructor consent. Same as JPNS 4080.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5150 (3) Japanese Literary Translation

Explores theories and practice of translation of literary texts as applied to Japanese-English translation; strategies for handling a variety of texts; and professional standards and ethics. May be repeated up to 6 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5170 (3) Japanese for Sinologists

An accelerated course in modern scholarly Japanese for students with a basic foundation in Japanese and an advanced knowledge of Chinese. Focus is on materials in Japanese that relate to Chinese civilization and includes an introduction to kanbun. Prereq., one year of modern Japanese, graduate-level command of Chinese, or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5210 (3) Classical Prose Literature

Examines selected prose works and authors from the Classical, or Heian, period (784-1185). Texts may include selections from diaries, tale literature, and zuihitsu such as Izumi Shikibu Nikki, Genji Monogatari, and Makura no Soshi. Texts and selections vary from year to year. May be repeated up to 6 total credit hours. Prereq., two semesters of classical Japanese language.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5220 (3) Waka, Renga, and Haiku

Studies the three most important poetic forms in Japanese literary history. Emphasizes the reading and analysis of selected texts and authors that best represent these genres. Readings include selections from the first eight imperial poetry anthologies (hachidaishu), famous renga sequences (Minase Sangin Hyakuin, for example), and the haiku of Basho. Texts and selections vary from year to year. May be repeated up to 6 total credit hours. Prereq., two semesters of classical Japanese language.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5280 (1-3) Topics in Classical Japanese Literature

Studies a specific problem or issue in classical (eighth through twelfth century) Japanese literature, e.g., the development of specifically Japanese theories of literature or the concept of genre in the Japanese tradition. Topics vary from year to year. May be repeated up to 6 total credit hours.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5310 (3) Advanced Classical Japanese I

Focuses on stylistic, grammatical, and orthographic variations in texts of the classical, medieval, and early modern eras. Prereq., JPNS 4310 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5320 (3) Advanced Classical Japanese II

Advanced analysis of stylistic, grammatical, and orthographic variations in texts of the classical, medieval, and early modern eras, including kanbun and hentaigana; translation and explication of texts. Prereq., JPNS 5310 (formerly 5160) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5410 (3) Medieval Prose Literature

Focuses on selected prose works and authors from the medieval, or Kamakura and Muromachi periods (1185-1600). Texts may include selections from a variety of war tales, histories, courtly fiction, diaries, memoirs, short prose narratives (otogi-zoshi), Noh plays, and Buddhist literature such as Heike Monogatari, Towazugatari, Izayoi Nikki, Tsurezuregusa, and Shasekishu. Texts and selections vary from year to year. May be repeated up to 6 total credit hours. Prereq., two semesters of classical Japanese language. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5420 (3) Japanese Buddhism and Literature

Studies selected works from the Japanese literary tradition in which Buddhism plays a significant thematic role. Focuses on texts such as the Nihon Ryoiki, Buddhist poetry (Shakkyo-Ka) from the imperial poetry anthologies, Heike Monogatari, Hojoki, the poetry of Saigyō and Bashō, and selected Noh plays. Texts and selections vary from year to year. May be repeated up to 6 total credit hours. Prereq., two semesters of classical Japanese language.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5480 (1-3) Topics in Medieval Literature

Focuses on a specific problem or issue in medieval literature, e.g., the spread of literary composition beyond the court. Topics vary from

year to year. May be repeated up to 6 total credit hours.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5610 (3) Japanese Dramatic Literature

Examines major writers and texts of the no, kyogen, kabuki, and bunraku theaters, including the plays and critical writings of such authors as Kannami Kiyotsugu, Zeami Motokiyo, Konparu Zenchiku, and Chikamatsu Monzaemon. Texts and secondary readings vary from year to year. May be repeated up to 6 total credit hours. Prereq., two semesters of classical Japanese language.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5810 (3) Modern Japanese Literature

Studies selected texts in Japanese literature from the Meiji Restoration (1868) to the end of the Pacific War. Surveys various literary genres, emphasizing the development of the modern novel as an aspect of Japan's response to Western cultural forms. The unique cultural politics of each of the periods (Meiji, Taisho, and Showa) are illuminated through the filter of both canonical and more marginalized texts. Specific selections vary from year to year. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5820 (3) Contemporary Japanese Literature

Covers developments in Japanese prose fiction, from the end of the Pacific War in 1945 to the present. Late modern texts of writers such as Mishima Yukio, Kawabata Yasunari, Enchi Fumiko, and Tanizaki Jun'ichiro (generally taken to represent modern Japanese literature) are reread in the light of works by more recent writers (and critics) such as Oe Kenzaburo, Yoshimoto Takaaki, Murakami Haruki, and Yamada Eimi. May be repeated up to 6 total credit hours.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5830 (3) Readings in Modern and Contemporary Japanese Thought and Culture

Examines central issues in Japanese culture and society since the Meiji Restoration (1868) through selected readings of the works of major writers in the fields of literature, anthropology, feminism, political science, and religion, among others. Provides a broad context for cultural studies in modern and contemporary Japan by positioning the most important commentators within their historical and social situations. May be taken for credit twice.

College of Arts & Sciences Asian Languages & Civilizations Japanese

JPNS-5900 (1-3) Independent Study

May be repeated up to 6 total credit hours.

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JPNS

JPNS-5920 (1-3) Topics in Modern Literature and Culture

Close study of a specific problem or issue in modern or contemporary literature or culture: e.g., transwar literary nationalism. May be repeated up to 6 total credit hours, provided the topics vary. Formerly JPNS 5880.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-5980 (1) Practical Issues in Japanese Language Pedagogy

Focuses on practical issues in Japanese language pedagogy for students who will serve as teaching assistants in Japanese language class. Examines the connection between theory and practice as well as practical methods for teaching Japanese. Discusses how to teach Japanese as a second language in a communicative approach and how to assess student language learning. Prereq., JPNS 4120 or equivalent. JPNS 4980 and 5980 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-6900 (1-6) Japanese Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-6940 (1) Japanese Master's Degree Candidate

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-6950 (1-6) Japanese Master's Thesis

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

JPNS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for no fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Japanese](#)

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Courses

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Subject **Number**

JWST

JWST-1030 (3) Biblical Hebrew 1

This course is designed to enable students to read the Hebrew Bible in the original language. The focus will be the ability to read the various genres of the text, utilizing both the tools of modern language acquisition and the study of classical grammar methods. Same as HEBR 1030.

[College of Arts & Sciences](#) [Jewish Studies](#)

JWST-1040 (3) Biblical Hebrew 2

Building on HEBR/JWST 1030, this course continues to build expertise in reading the Hebrew Bible. Modern language acquisition and classical grammar study methods equip students with the tools to translate and read the various genres of the Biblical material. Prereq., HEBR/JWST 1030 or instructor consent. HEBR 1040 and JWST 1040 are the same course.

[College of Arts & Sciences](#) [Jewish Studies](#)

JWST-1818 (3) Introduction to Jewish History, Bible to 1492

Study the origins of a group of people who call themselves, and whom others call, Jews. Focus on place, movement, power/powerlessness, gender, and the question of how to define Jews over time and place. Introduces Jews as a group of people bound together by a particular set of laws; looks at their dispersion and diversity; explores Jews' interactions with surrounding cultures and societies; introduces the basic library of Jews; sees how Jews relate to political power. Same as HIST 1818.

[College of Arts & Sciences](#) [Jewish Studies](#)

JWST-1828 (3) Introduction to Jewish History since 1492

Surveys the major historical developments encountered by Jewish communities beginning with the Spanish Expulsion in 1492 up until the present day. We will study the various ways in which Jews across the modern world engaged with the emerging notions of nationality, equality, and citizenship, as well as with new ideologies such as liberalism, socialism, nationalism, imperialism and antisemitism. Same as HIST 1828. Formerly JWST 1108. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Jewish Studies

JWST-2350 (3) Introduction to Jewish Culture

Explores the development and expressions of Jewish culture as it moves across the chronological and geographical map of the historic Jewish people, with an emphasis on the variety of Jewish ethnicities and their cultural productions, cultural syncretism, and changes. Sets the discussion in a historical context, and looks at cultural representations that include literary, religious, and visual texts. Taught in English. Same as HEBR 2350. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Jewish Studies

JWST-2502 (3) Representing the Holocaust

Examines how the memory of the Holocaust in Nazi Germany is increasingly determined by the means of its representation, e.g., film, autobiography, poetry, architecture. Same as GRMN 2502. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Jewish Studies

JWST-2551 (3) Jewish Literature: Jews Coming of Age

Study the work of Jewish writers in English and English translation. Looks at a broad spectrum of texts which show the various ways Jewish authors and poets across time and space have understood the world. Themes will include questions of secularity and tradition, diaspora, exile and citizenship, and the changes of modernity (social and political emancipation, world-wide wars, cultural transformation, new homelands). HEBR 2551 and JWST 2551 are identical courses. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Jewish Studies

JWST-2600 (3) Judaism, Christianity, and Islam

Introduces literature, beliefs, practices, and institutions of Judaism, Christianity, and Islam, in historical perspective. Same as RLST 2600. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Jewish Studies

JWST-3100 (3) Judaism

Explores Jewish religious experience and its expression in thought, ritual, ethics, and social institutions. Same as RLST 3100. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Jewish Studies

JWST-3200 (3) Religion and Feminist Thought

Examines the origin of patriarchal culture in the theology and practices of Judaism and Christianity. Explores attitudes and beliefs concerning women as Judeo-Christian culture impacts gender roles and gender stratification through reading and discussion. Women's religious experience is studied from the perspective of feminist interpretations of religiosity. Prereq., WMST 2000 or WMST/RLST 2800. WMST 3200 and JWST 3200 are the same course.

College of Arts & Sciences Jewish Studies

JWST-3202 (3) Women, Gender & Sexuality in Jewish Texts & Traditions

Reads some of the ways Jewish texts and traditions look at women, gender and sexuality from biblical times to the present. Starts with an analysis of the positioning of the body, matter and gender in creation stories, moves on to the gendered aspects of tales of rescue and sacrifice, biblical tales of sexual subversion and power, taboo-breaking and ethnos building, to rabbinic attitudes towards women, sexuality and gender and contemporary renderings and rereadings of the earlier texts and traditions. Same as HEBR 3202. Approved for arts and sciences core curriculum: Human Diversity.

College of Arts & Sciences Jewish Studies

JWST-3312 (3) The Bible as Literature

Surveys literary achievements of the Judeo-Christian tradition as represented by the Bible. Same as ENGL 3312. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Jewish Studies

JWST-3401 (3) The Heart of Europe: Filmmakers and Writers in 20th Century Central Europe

Surveys the major works of 20th century central and central eastern European film and literature. Examines cultural production in the non-imperial countries and non-national languages of the region including Yiddish, Belarusian, Czech, Hungarian, Polish and Romanian, among others. Traces the rise of nationalism over the course of the century from the age of empires through the "Cold War." Same as GSSL 3401.

College of Arts & Sciences Jewish Studies

JWST-3501 (3) German-Jewish Writers: From the Enlightenment to the Present.

Provides insight into the German-Jewish identity through essays, autobiographies, fiction, and journalism from the Enlightenment to the post-Holocaust period. Examines the religious and social conflicts that typify the history of Jewish existence in German-speaking lands during the modern epoch. Same as GRMN 3501. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Jewish Studies

JWST-3600 (3) Global Secular Jewish Societies

This course uses a transnational lens to explore contemporary debates about Jewish people, places, and practices of identity and community. Drawing on history, sociology, international studies, and anthropology, we'll think about the places that Jewish people have called 'home,' and what has made, or continues to make those places 'Jewish.' We'll also explore diverse practices that express the extraordinary varieties of Jewishness (such as building synagogues, food markets, and coffeehouses, creating film festivals, going on heritage travel, Israeli-Jewish backpacking, the creation of online websites and blogs, and creating new urban kibbutzim). Restricted to students with minimum 57 units completed. JWST 3600 and IAFS 3600 are the same course. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Jewish Studies

JWST-3610 (3) Topics in International Affairs and Jewish Studies

Explores topics in international affairs as it relates to Jewish culture and society. Subjects addressed under this heading vary according to student interest and faculty availability. May be repeated up to 9 total credit hours. IAFS 3610 and JWST 3610 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Jewish Studies

JWST-3650 (3) History of Arab-Israeli Conflict

Explores the origins and development of the Arab-Israeli conflict. Traces Arab-Jewish/Israeli relations from the nineteenth century through the Palestine Mandate, the evolution of Arab and Jewish nationalism, and the creation of Israel to the present day. Recommended prereqs., HIST 1308; HIST/JWST 1828. Same as IAFS 3650. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Jewish Studies

JWST-3677 (3) Jewish-American Literature

Explores the Jewish-American experience from the 19th century to the present through writers such as Sholom Aleichem, Peretz, I. Babel, Singer, Malamud, Miller, Ginsberg, and Ozick. The Jewish experience ranges from the travails of immigration to the loss of identity through assimilation. Same as ENGL 3677. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to

students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences Jewish Studies

JWST-3930 (3) Internship in Jewish Studies

Learn beyond the classroom by interning in a local non-profit organization that connects with the Program in Jewish Studies through its mission and/or program. Interns will be supervised by the faculty member of record as well as the employer housing the intern. Prereqs., HIST/JWST 1108 or HEBR/JWST 2350. May be repeated up to 6 total credit hours.

College of Arts & Sciences Jewish Studies

JWST-4000 (1-3) Capstone in Jewish Studies

Serves as the final product for students completing the major in Jewish Studies. The capstone asks students to design a project under the supervision of a mentor that serves as the summation of their past work in Jewish Studies. Capstone projects can take the form of a thesis, film, or other medium and must engage the student's second language. Restricted to senior Jewish Studies (JWST) majors only. Prerequisites: Restricted to senior Jewish Studies (JWST) majors only.

College of Arts & Sciences Jewish Studies

JWST-4050 (3) Anthropology of Jews and Judaism

Explores topics in Jewish anthropology. Course will use the lens of anthropological inquiry to explore, discover and analyze different concepts within Jewish culture. Topics explored will include customs, religious practices, languages, ethnic and regional subdivisions, occupations, social composition, and folklore. Courses will explore fundamental questions about the definition of Jewish identity, practices and communities. May be repeated up to 9 total credit hours. Restricted to students with 57-180 credits (Junior or Senior). ANTH 4050 and JWST 4050 are the same course.

College of Arts & Sciences Jewish Studies

JWST-4101 (3) Topics in Hebrew Studies

Explores topics in Hebrew and Jewish literature and cultures. These may include topics such as diasporic literatures, Jewish artists and thinkers, courses on specific authors, figures or communities. Topics change each semester. May be repeated up to 9 total credit hours. Taught in English. HEBR 4101 and JWST 4101 are the same course.

College of Arts & Sciences Jewish Studies

JWST-4203 (3) Israeli Literature: Exile, Nation, Home

Examines the creation and development of Israeli literature from its pre-State beginnings to the present day, from the writings of

immigrants for whom Hebrew was not their mother tongue to a literature written by native Hebrew speakers. Considers texts written by Israeli Jewish and Arab writers and explores how ideas of exile, nation, and home play into the Israeli experience. Recommended prereqs., ENGL/JWST 3677, GRMN/JWST 2502; GRMN/JWST 3503; HEBR/JWST 2551; WRTG/JWST 3020. Same as HEBR 4203. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Jewish Studies

JWST-4260 (3) Topics in Judaism

Examines in depth central themes, schools of thought, and movements in Judaism across a range of historical periods. May be repeated up to 9 total credit hours as topics change. Recommended prereqs., 6 hours of RLST courses at any level including RLST/JWST 3100, RLST/JWST 2600, HIST/JWST 1108 or HEBR/JWST 2350 or instructor consent. RLST 4260, JWST 4260, and 5260 are the same course.

College of Arts & Sciences Jewish Studies

JWST-4301 (3) Venice: the Cradle of European Jewish Culture.

Explores the development of European Jewish culture from the late Middle Ages to the present by focusing on Jewish life in the city of Venice, Italy. Emphasis is on the development of Venetian print culture and emergence of Italy as a center of Jewish publishing in both the religious and secular world. The course examines a variety of cultural and historical material including early printings of the Talmud, the creation of Yiddish popular literature, Hebrew rabbinic literature, responses to political turmoil, and the aftermath of the Nazi genocide. Taught in English. Prereq., HEBR/JWST 2350. HEBR 4301 and JWST 4301 are the same course. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Jewish Studies

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JWST

JWST-4302 (6) Justice, Human Rights and Democracy in Israel

Explore the challenges and complexities of justice, democracy, and human rights in Israel and the West Bank through field trips, course work and service learning projects with Jerusalem based non-profit organizations. Acquire new knowledge and lived experience on critical issues facing Israelis and Palestinians with the wider scope of Middle East politics. Recommended prereqs., ANTH/JWST 4050 and IAFS/JWST 3600. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Jewish Studies](#)

JWST-4338 (3) History of Modern Israel

Learn the history of this crossroads of Europe and Asia from the late Ottoman Empire to the present. Main topics include nationalism and colonialism, development of Zionist ideology, development of Palestinian nationalism, establishment of the Jewish settlement (Yishuv) under British rule, the founding of the Jewish nation-state, relations with neighbors, and the aftermath of the 1956, 1967, 1973, and 1982 wars. Prereqs., HIST 1108 or 1308 or JWST 2350. HIST 4338 and JWST 4338 are the same course.

[College of Arts & Sciences](#) [Jewish Studies](#)

JWST-4348 (3) Topics in Jewish History

Covers topics in Jewish history from biblical beginnings to present day. Topics vary each semester. Consult the online Schedule Planner for specific topics. May be repeated up to 6 total credit hours within the degree. Prereqs., HIST 1108 or 1308 or JWST 2350. Same as HIST 4348. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Jewish Studies](#)

JWST-4378 (3) Jews Under Islam

Examines Jewish communities of the Mediterranean basin and Middle East in modern times. Topics covered include culture and identity of these communities, as well as their encounter with empire, westernization, and nationalism, among other political and social currents. Exploration of images and representations of Sephardi and Eastern Jewries. Sources include memoirs, diaries, films, 19th century press and correspondence, and travelogues. Same as HIST 4378.

College of Arts & Sciences Jewish Studies

JWST-4454 (3) Jewish Intellectual History

Takes students on a journey from Medieval Spain to contemporary United States to explore how Jews, living in different societies, have attempted to reshape and interpret central Jewish values and beliefs in accordance with the prevailing ideas of their host societies. Focuses on the historical context of each Jewish society that produced the thinkers and ideas considered in this course. Prereq., HIST 1010 or 1020, or HIST/JWST 1108, or HEBR/JWST 2350. JWST 4454 and HIST 4454 are the same course.

College of Arts & Sciences Jewish Studies

JWST-4544 (3) History of Yiddish Culture

Jews have produced culture in Yiddish, the vernacular language of eastern European Jewry, for 1000 years and the language continues to shape Jewish culture today. In this course, we will look at the literature, film, theater, music, art, sound, and laughter that defined the culture of eastern European Jewry and, in the 20th century, Jews around the world. Recommended prereqs., HIST 1108 or HEBR 2350. Same as HIST 4544.

College of Arts & Sciences Jewish Studies

JWST-4580 (3) The Holocaust: An Anthropological Perspective

Focuses on the Holocaust during the Third Reich, which involved the murder of millions of people, including six million Jews. Reviews the Holocaust's history, dynamics, and consequences as well as other genocides of the 20th century, using an anthropological approach. Restricted to juniors/seniors. Same as ANTH 4580. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Jewish Studies

JWST-4827 (3) Modern U.S. Jewish History

Explores the experience of Jews in the United States from the 1880's when the great migration of Jews from Eastern Europe began, through the twentieth century. Students will explore the changing ways in which Jews adapted to life in the U.S., constructed American Jewish identities, and helped to participate in the construction of the United States as a nation. Recommended prereqs., HIST 1025 or HIST/JWST 1108 or HEBR/JWST 2350. JWST 4827 and HIST 4827 are the same course.

College of Arts & Sciences Jewish Studies



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KREN

KREN-1010 (5) First-Year (Beginning) Korean 1

Trains students in elementary conversational and writing skills and provides grounding in the basic idiomatic and syntactical features of Korean, through lectures, drills, and language laboratory sessions based on set dialogues and readings.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Korean](#)

KREN-1011 (3) Introduction to Korean Civilization

Introduces the history of Korean culture within the context of political, social, and economic history. Covers the old Choson dynasty to present day Korea. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Korean](#)

KREN-1020 (5) First-Year (Beginning) Korean 2

Continuation of KREN 1010. Prereq., KREN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Korean](#)

KREN-2110 (5) Second-Year (Intermediate) Korean 1

Extends the conversational and written skills acquired at the elementary level. Although emphasis remains on spoken Korean, readings are increased, elementary writing skills are introduced gradually, and some Sino Korean characters are taught. Prereq., KREN 1020 (min. grade C) or instructor consent. Meets MAPS requirement for foreign language.

College of Arts & Sciences Asian Languages & Civilizations Korean

KREN-2120 (5) Second-Year (Intermediate) Korean 2

Continuation of KREN 2110. Prereq., KREN 2110 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Korean

KREN-2441 (3) Film and Korean Culture

Introduces Korean/South Korean cinema from colonial period to the contemporary including old Korean black and white films, the earliest talkie films and contemporary art films. Considers cinema as a window to see the tumultuous and diverse culture of modern Korea. Taught in English. No prior knowledge or Korea, Korean film or film art is required.

College of Arts & Sciences Asian Languages & Civilizations Korean

KREN-3110 (5) Advanced Korean 1

Promotes an advanced level of speaking, reading, and writing. Focuses on contemporary business Korean language as reflected in various Korean media such as newspapers, magazines, and television. The goal is to acquire Korean language skills at a level that allows students to conduct business activities. Prereq., KREN 2120 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Korean

KREN-3120 (5) Advanced Korean 2

This second semester of Korean offers advanced level (2) speaking and writing. Focuses on understanding contemporary Korean languages as reflected in various communication media, such as print, TV, and films to help students understand Korean in a variety of contexts. Prereq., KREN 3110 (min grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Korean

KREN-3841 (3) Modern Korean Literature in English Translation

Surveys masterpieces of modern Korean literature written by significant Korean/Korean American authors in English. Provides various literary and theoretical frameworks to understand Korean literature within the context of Asian global culture. Covers from colonial period to the present. No prior knowledge of Korea or Korean literature is required.

College of Arts & Sciences Asian Languages & Civilizations Korean

KREN-4900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Korean](#)



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LAWS

LAWS-5103 (1) Legal Ethics & Professionalism: What Kind of Lawyer Do You Want to Be?

Explores both the kind of law students might decide to practice and the ethical, personal, and professional commitments central to the practice of law. Students who elect to participate in this 1-unit elective are committing to enroll in the fall of the 2nd year in LAWS 6133 for 2 units, focusing on the Model Rules of Professional Conduct. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[Jurisprudence and Perspective](#)

LAWS-5121 (4) Contracts.

Covers basic principles of contract liability, offer, acceptance and consideration, statute of frauds, contract remedies, the parole evidence rule, performance of contracts, conditions, effect of changed circumstances, third-party beneficiaries, assignment, and specific performance.

[Law School](#)
[Law](#)
[Business](#)

LAWS-5201 (1) Entrepreneurship, Innovation and Public Policy

Explores cutting edge questions around entrepreneurship, including being an entrepreneur, leadership and what makes a great founding team, building and scaling a business, entrepreneurial communities, financing entrepreneurial companies, leadership in government, entrepreneurship and innovation policy. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#)
[Law](#)
[Business](#)

LAWS-5205 (3) Legislation and Regulation

Introduces lawmaking in the modern administrative state. Examines the way Congress and administrative agencies adopt binding rules of law (statutes and regulations, respectively) and the way that implementing institutions--courts and administrative agencies--interpret and apply these laws. Considers the structure of the modern administrative state, the incentives that influence the behavior of the various actors, and the legal rules that help to structure the relationships among Congress, the agencies, and the courts. Restricted to LAWS students. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-5211 (1) Framing and Legal Narrative

Explores the role of framing effects in constructing a legal argument. From an appellate court opinion to closing statement to a jury to a white paper to a regulatory agency to a public campaign for a ballot proposition, the role of an overarching narrative is critical to effective persuasion. Prerequisites: Restricted to Law students only.

Law School Law

LAWS-5223 (2) Legal Writing II

Students prepare appellate briefs and related documents and deliver oral arguments before a three-judge court composed of faculty, upper-division students, and practicing attorneys. Practice arguments are videotaped and critiqued.

Law School Law Litigation and Procedure

LAWS-5226 (2) Legal Writing I

Provides an intensive introduction to the resources available for legal research. Students also prepare written material of various kinds designed to develop research skills, legal writing style, and analysis of legal problems. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-5303 (4) Civil Procedure

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-5313 (3) Civil Procedure 2

Studies modern practice in civil suits, including rules governing pleading, joinder of parties, discovery, jurisdiction of courts over the subject matter and parties, right to jury trial, appeals, and res judicata and collateral estoppel, with emphasis on the Federal Rules of Civil Procedure and their Colorado counterpart.

Law School Law Litigation and Procedure

LAWS-5323 (1) Courtroom Observation Civil

An elective that requires fifteen hours observing actual civil proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-5425 (3) Torts

Studies nonconsensual allocation of losses for civil wrongs, focusing primarily on concepts of negligence and strict liability. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-5503 (4) Criminal Law

Studies statutory and common law of crimes and defenses, the procedures by which the law makes judgments as to criminality of conduct, the purposes of criminal law, and the constitutional limits upon it.

Law School Law Litigation and Procedure

LAWS-5513 (1) Courtroom Observation Criminal

An elective that requires fifteen hours observing actual criminal proceedings in a courtroom(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. Figuring out how to gain access to appropriate proceedings is part of the student's work, although the professor is available for advice and guidance. Course is offered for Pass/Fail only. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-5624 (4) Property

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls. Prerequisites: Restricted to Law students only.

Law School Law Property

LAWS-5634 (2-3) Property 2

Topics include personal property, estates and interests in land, landlord-tenant, basic land conveyancing, and private land use controls.

Law School Law Property

LAWS-5803 (1) Courtroom Observation International

An elective that requires fifteen hours observing proceedings before an international tribunal(s), attending a two-hour class meeting every other week, preparing and submitting a journal of recorded observations. The proceedings observed will be available streaming online and the professor will provide information about how to gain access to them. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-6002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Prereq., LAWS 6112.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-6004 (3) Real Estate Transactions

Focuses on legal issues that arise in all phases of real estate transactions, with an emphasis on the role of the lawyer in the business of real estate as well as on the regulation of real estate markets.

Law School Law Property

LAWS-6005 (4) Constitutional Law

Studies constitutional structure: judicial review, federalism, separation of powers; and constitutional rights of due process and equal protection.

Law School Law Government and Public

LAWS-6007 (4) Income Taxation

Emphasizes the fundamentals of the federal income tax system and examines its impact on the individual. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Taxation



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LAWS

LAWS-6024 (3) Real Property Security

Examines basic mortgage law, including use of mortgage substitutes (e.g., deeds of trusts and installment land contracts). Covers foreclosure and redemption and related problems; special priority problems in land acquisitions and construction financing; special financing devices, including variable-interest and wraparound mortgages; and problems relating to the transfer of the mortgagor's and mortgagee's respective interests.

Law School Law

LAWS-6029 (4) Legal Aid Criminal Practice 1

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-6031 (2) Consumer Protection Laws and Policies

Focuses on deceptive trade practices and consumer rights. Reviews the law of deception/misrepresentation at common law, and federal and state laws regarding unfair acts and practices. Covers credit practices, environmental and health claims, and telecommunications and privacy. Discusses remedies, including governmental enforcement actions, and individual and class actions.

Law School Law

LAWS-6035 (3) White Collar Crime

Examines distinctions between white collar crime and other types of criminal activity and the needs for and arguments against white collar laws and law enforcement. Studies securities fraud, mail and wire fraud, insider trading, money laundering, false statements, conspiracy and criminal forfeiture statutes. Includes use of the grand jury, privileges applicable in the corporate setting, immunity, discovery and the impact of parallel civil proceedings. Examines effect of government policy on corporations and their counsel, pre-trial and trial strategy, jury selection, and victim notification and restitution options. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6039 (4) Criminal Defense Clinic 2

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants in Boulder courts. Develops working knowledge of courtroom skills. Prereq. or coreq., LAWS 6353.

Law School | Law | Practice: Clinical & Simulation

LAWS-6045 (3) Criminal Procedure

Focuses primarily on the constitutional limitations applicable to such police investigative techniques as arrest, search, seizure, electronic surveillance, interrogation, and lineup identification. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6049 (4) Legal Assistance 1: Federal Courts

Studies evidence and procedural issues, discovery (including document management), pretrial preparation, motions, pretrial conferences, and jury selection. Focuses on opening and closing statement strategies, elements of direct and cross-examination, and impeachment; how to present evidence using technology, including presentation software. Students participate in preparing and arguing motions in federal court and may participate in trial proceedings.

Law School | Law

LAWS-6055 (3) Post-Conviction Criminal Procedure

Addresses sentencing process and schemes, direct appeals, probation modification and revocation, parole revocation, pardon and commutation processes, post-conviction litigation and appeal in both state and federal court, federal review of state convictions through habeas and/or the AEDPA, and ethical issues that arise in post-conviction proceedings. Prerequisites: Restricted to Law students only.

Law School | Law | Litigation and Procedure

LAWS-6059 (2-3) Legal Aid and Defender

Law School | Law

LAWS-6065 (3) Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of the law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this course: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-6069 (4) Immigration Clinic

Emphasizes practice skills in immigration cases. Includes litigation before Federal Immigration judges, Board of Immigration Appeals, and Federal Circuit Court of Appeals. Prereq. or coreq., LAWS 6353.

Law School Law

LAWS-6079 (4) Criminal Defense Clinic

Provides thorough grounding in problems of criminal defense. Students defend indigent misdemeanants. Develops working knowledge of courtroom skills, advocacy, and evidence presentation. Concludes with full mock trial. Prereq. or coreq., LAWS 6353. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-6089 (4) Legal Assistance 2: Federal Courts

Studies evidence and procedural issues, discovery (including document management), pretrial preparation, motions, pretrial conferences, and jury selection. Focuses on opening and closing statement strategies, elements of direct and cross-examination, and impeachment; how to present evidence using technology, including presentation software. Students participate in preparing and arguing motions in federal court and may participate in trial proceedings.

Law School Law

LAWS-6099 (4) Family Law Clinic

Represents low-income clients in family law cases in local state district court. Students will gain court-based experience in dissolution's and allocations of parental responsibilities. Seminar component includes instruction on substantive family law, related ethical issues, and theoretical backgrounds of poverty lawyering.

Law School Law

LAWS-6103 (2-3) Legal Ethics Professionalism

Examines the legal profession as an institution, its history and traditions, and the ethics of the bar with particular emphasis on the professional responsibilities of the lawyer. Discusses the Model Rules of Professional Conduct. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Jurisprudence and Perspective

LAWS-6104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; and construction problems in estate distribution. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Property

LAWS-6105 (2) Defending Immigrants in Criminal and Immigration Courts

Addresses legal procedures, pleadings and client advocacy matters involved in the representation of Spanish-speaking clients who have been arrested for criminal offenses and who have been issued a detainer by Immigration and Customs Enforcement for possible immigration removal proceedings. Provides overview of criminal defense concepts, and how criminal defense attorneys must be prepared to competently counsel their clients who are facing removal proceedings in the federal immigration system. Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-6108 (3) Conflict of Laws

Addresses the conflicts that arise when the significant facts of a case are connected with more than one jurisdiction, whether that jurisdiction belongs to a state, the federal government, or a foreign government. The subject is studied in its theoretical and historical context, with special emphasis on the international aspects of extraterritorial jurisdiction.

Law School Law Jurisprudence and Perspective

LAWS-6109 (2) Trial Advocacy

Focuses on voir dire, opening statement, direct examination of witnesses, and cross examination. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-6112 (3) Foundations of American Natural Resources Law

Introduces students to the law of natural resources. Examines the legal, historical, political, and intellectual influences that shape

resources development and conservation. Same as ENVS 6112. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-6113 (2) Legal Ethics and Professionalism: Ethics and the Law of Lawyering

Continuation of LAWS 5103. Focuses on the Model Rules of Professional Conduct. Provides the nuts and bolts of the ethical rules needed to begin to explore externships, clinics, pro bono projects and other practice experiences during law school. Prereq., LAWS 5103. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-6114 (2) Construction Law

Focuses on the basic principles and practices of construction law. Provides an overview of construction industry participants and players (engineers, contractors, insurers, etc.) and discusses and analyzes the various obligations and liabilities of these parties. Covers construction and design contracting, construction claims, professional negligence, construction insurance and suretyship, and ADR in construction. Provides transactional-practice oriented exercises.

Law School Law Property

LAWS-6117 (3) Survey of Business Enterprise Tax

Makes a comparative survey of federal income taxation of C corporations, S corporations, and partnership/limited liability companies, the principal entity choices for conducting business in the United States. Includes formation, operations, distributions, sales of interests, and liquidation. Suitable for students seeking introductory background for business or real estate practice, without the detail required for a tax specialist. Prereq., LAWS 6007.

Law School Law

LAWS-6119 (1) Deposition Skills

Provides valuable skills to assume active roles in the deposition process. Explores why and when to take depositions; drafting and objecting to deposition notices for individual deponents, non-party witnesses, and corporate designees; drafting successful outlines, proper questions and objections; using exhibits; furthering case theory, making and using stipulations; using depositions in pretrial motions and at trial. Prerequisites: Restricted to Law students only.

Law School Law Practice:Clinical & Simulation

LAWS-6122 (2) International Natural Resources Law and Policy

Examines the suite of policy issues and legal ramifications associated with sustainable natural resource development. Examines most recent research on the "resource curse" theory. Examines recent policy developments and discussions that have occurred among industry, NGOs, multilateral development agencies and governments. Examines issues related to bribery and corruption in developing country environments, and dispute resolution mechanisms at national and local levels. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#)

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Courses

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All

Search by Course Number

Subject Number

LAWS

LAWS-6128 (1-3) Legal Interpretation and the Legislative Process

Examines theories of legislation and the relation between legislatures and courts, emphasizing problems of statutory interpretation and other issues in the judicial use or misuse of statutes. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Government and Public](#)

LAWS-6138 (2-3) Federal Tax Politics

Studies the tax system as the nexus of politics and economics. Examines how various interests and entities use the many tools of political power to shape the tax system. Intended for those interested in politics and legislation, rather than for the tax specialist.

[Law School](#) [Law](#) [Taxation](#)

LAWS-6157 (3) Corporate Taxation

Studies federal income taxation related to taxable corporations, the entities through which a large part of the economic activity in the U.S. is conducted. Includes creation, operation, distributions, sale of interests, and liquidation. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Taxation](#)

LAWS-6167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sale of interests, and liquidation. Prerq., LAWS 6007.



Law School Law Taxation

LAWS-6179 (2) Trial Practice

Students apply the rules and doctrine of evidence in simulated trial settings. Must be taken with the corresponding section of Evidence. Enrollment is to 24. Satisfies the trial practice requirement and counts 2 hours toward the 14 credit hour maximum of clinical hours counted toward graduation. Graded course; not pass/fail.

Law School Law

LAWS-6201 (3-4) Agency, Partnership, and the LLC

Surveys agency law whose principles are important in many other areas of law. Studies the legal organizations commonly used by small businesses: partnerships and limited liability companies (LLCs). Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Business

LAWS-6205 (3) Lawyers for Social Change

Helps students expand their perspective to understand the ways in which lawyers more broadly participate in social change work in this service learning class. Analyzes case histories of cause lawyering. The service learning component is based on the precept that one of the most effective ways to learn a role is to perform that role. Students will participate as social change lawyers by working with a local community to help it develop projects that the community believes will help it better itself. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-6206 (3) Litigation Drafting

Examines the intersection of civil procedure and legal writing. Emphasizes the drafting of persuasive adversarial litigation documents, including complaints, answers, motions in limine, motions to dismiss, motions of summary judgment, and jury instructions. Intensive writing and workshop format.

Law School Law Research and Writing

LAWS-6210 (2-3) Comparative Law

Considers foreign solutions to certain key legal problems. Focuses on general problems of legal process, rather than on substantive rules. Topics include the role of lawyers, civil dispute resolution, criminal procedure, and employment discrimination. Covers different legal systems in different years.

Law School Law International

LAWS-6211 (3) Corporations

Covers formation of corporations and their management; relations among shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations. Prerequisites: Restricted to Professional Year 1, 2, or 3 Law students only.

Law School Law Business

LAWS-6213 (2) Advanced Appellate Advocacy

Advanced study and practice of written and oral appellate advocacy. Builds on the foundation established in the required first-year course in appellate advocacy, but provides more extensive coverage, practice, and evaluation. Personalized instruction in brief writing, including detailed, one-on-one critique of their work. Include advanced techniques for organizing and writing a brief, and advanced instruction on the strategy and process of oral argument. Required to research, write, and rewrite an appellate brief, and conduct several oral arguments. Attend oral arguments of the United States Court of Appeals for the Tenth Circuit and the Colorado Court of Appeals. Prereq., LAWS 7106. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6220 (3) Introduction to Jewish/Israeli Law

Outlines the history and basic principles of Jewish Law, Halakhic system that encompasses Biblical law and the Rabbinic law. Covers Legal Sources of the Jewish laws, interpretation, legislation, custom, precedence and legal reasoning. Explores the study of modern legal system of the state of Israel and examines the problematic nature of the incorporation of the Law of personal status in the Rabbinical and in general courts. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6221 (3) Principles of Auditing, Compliance, and Risk Management

Introduces the fundamental legal and business rules and processes involved in performing audit, compliance, and risk management. Investigates understanding and measuring risk, establishing standards for aggregating disparate information, gathering market data, calculating risk measures, and creating timely reporting tools for managing risk. Covers important regulations including Sarbanes-Oxleyk, HIPAA, and FISMA. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-6226 (2-3) Advanced Legal Research and Writing

Focuses on improvement of legal writing skills including organizing, drafting, and revising legal writing. Improves research and analysis skills. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-6236 (2) Judicial Opinion Writing

Places contemporary American judicial opinion in historical and comparative context. Analyzes individual and institutional writing choices that authors of judicial opinions must make and ethical dilemmas they must confront. Builds upon the first-year legal-writing curriculum. Challenges students to develop and defend their own opinion-writing approaches and styles as well as to write from approaches and in styles that are not their own.

Law School Law Research and Writing

LAWS-6246 (2) Introduction to United States Legal System/Legal Reasoning, Research and Writing

Introduces students without a law degree to the basic structure and content of the United States legal system, examining how the three branches of government at the state and federal levels make law and policy in the United States. The course will provide a basic introductory overview of the following: the various sources of law, including an understanding of how statutes are enacted by legislative institutions; the role of the United States court system in interpreting laws; application of judicial precedent in common-law systems; trial and appellate court procedures; and judicial review standards. The course will also introduce students to the methodology of American law, including legal reasoning, research, and writing, through a variety of in-class and outside research and writing assignments.

Law School Law

LAWS-6251 (4) Corporations

Covers formation of corporations and their management; relations between shareholders, officers, and directors; the impact of federal legislation on directors' duties; and the special problems of closed corporations.

Law School Law

LAWS-6281 (3) Accounting Issues for Lawyers

Studies accounting and auditing problems in the form they are placed before the lawyer, including a succinct study of basic bookkeeping, in-depth legal analysis of the major current problems of financial accounting, and consideration of the conduct of the financial affairs of business.

Law School Law Business

LAWS-6301 (3) Introduction to Intellectual Property

Provides an overview of our nation's intellectual property laws, including patents, copyrights, trademarks, and trade secrets. Discusses other matters related to intellectual property, including licensing, competition policy issues, and remedies. Same as TLEN 5245.

Prerequisites: Restricted to Law students only.

Law School | Law | [Intell Prop, Tech, and Telecom](#)

LAWS-6302 (3) Water Resources

Analyzes regional and national water problems, including the legal methods by which surface and ground water supplies are allocated, managed, and protected. Prerequisites: Restricted to Law students only.

Law School | Law | [Envir, Nat Resources, Amer Ind](#)

LAWS-6308 (2) Law and Neuroscience

Covers neuroscience basics, and explores the relationship between the law and recent neuroscientific discoveries in domains including pain, memory, lie detection, psychopathy and criminal responsibility.

Law School | Law | [Jurisprudence and Perspective](#)

LAWS-6311 (1) National Security and Privacy Law

Introduces national security and privacy law and relevant law, regulations, rules, policies, and guidelines.

Law School | Law

LAWS-6318 (3) Economic Analysis of Law

Introduces the basic elements of economic theory and emphasizes demand and utility, cost, and optimality. Prerequisites: Restricted to Law students only.

Law School | Law | [Jurisprudence and Perspective](#)

LAWS-6321 (3) Computer Crime

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront as they respond to recent explosions in computer-related crime. Includes the Fourth Amendment in cyberspace, the law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal/state relations in enforcement of computer crime laws, and civil liberties online. Same as TLEN 5255. Prerequisites: Restricted to Law students only.

Law School | Law | [Intell Prop, Tech, and Telecom](#)

LAWS-6328 (3) Financial Decision-Making

Applies concepts, ideas, insights, and principles of modern finance to real-world situations that lawyers will face in many areas of law.

Analyzes present discounted value (time value of money), risk versus return, asset diversification, portfolio theory, efficient markets hypothesis, arbitrage, financial options, real options, financial signals, human capital, behavioral finance, socially responsible investing, neurofinance, happiness finance, and financial bubbles and crashes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

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Courses

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Subject **Number**

LAWS

[LAWS-6331 \(1\) The Technology of Privacy](#)

Explores the escalating debates by policymakers, scholars, advocates, and industry representatives about the growing spread of tracking and surveillance in society. Debates are being spurred by the pace of changes to technology and particularly of changes to Internet and mobile technology. Practitioners in information privacy law or technology policy must understand the past, present, and likely future of the technology of privacy. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Intell Prop, Tech, and Telecom](#)

[LAWS-6338 \(1\) Understanding the Global Financial Crisis](#)

Explores the causes and consequences of the global financial crisis. Analyzes financial instruments and institutions at the heart of the crisis -- including asset-backed securities, credit derivatives, government-sponsored entities, credit rating agencies, hedge funds, and financial conglomerates -- and places them in the context of a larger "shadow banking system". Examines the building blocks of financial reform.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

[LAWS-6353 \(3\) Evidence](#)

Studies the methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Litigation and Procedure](#)

[LAWS-6363 \(5\) Evidence and Trial Practice](#)

Studies methods and forms of proof in litigation, including detailed consideration of hearsay, impeachment of witnesses, relevancy and certain restrictions on authentication and best evidence doctrines, and privileges. Applies rules and doctrine of evidence in simulated trial settings. Combined Evidence and Trial Practice course. Satisfies the trial practice requirement and counts two hours toward the 14 credit hour maximum in clinical hours.

Law School Law

LAWS-6373 (3) Federal Litigation: Everything but the Trial

Litigates through all pretrial phases as plaintiff's counsel, a mock federal case: an employee's challenge to compensation and termination, with possible claims including breach of contract, breach of the implied covenant of good faith and fair dealing, violation of wage payment statutory and regulatory requirements, and fraudulent inducement to contract. Prereq., LAWS 6353. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-6400 (3) International Law

Examines the nature, structure, and sources of international law, the relationship between international law and domestic U.S. law, the role of international organizations such as the United Nations, the methods of resolving international disputes, the bases of international jurisdiction, and select substantive areas of international law that may change from semester to semester. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-6415 (2-3) Drug Product Liability Litigation: Principles and Practice

Explores product liability lawsuits and litigation. Explores law of product liability and the tools necessary to successfully litigate these cases. Considers the theory and practice of lawsuits now and after the Supreme Courts landmark decision in Wyeth v. Levine (2009). Focuses on similarities and differences between the special context of FDA regulation. Considers the legal principles governing such lawsuits such as inadequate warning, the Learned intermediary Doctrine and medical causation.

Law School Law

LAWS-6420 (1) Law and the Holocaust

Explores comparative law, jurisprudence, conflicts of laws and international law. Examines the Nazi philosophy of law emanating from its egregious racial ideology, and how it was used to pervert Germany's legal system to discriminate against, ostracize, dehumanize, and eliminate certain classes of people. Studies the role of international law in rectifying the damage by bringing perpetrators to justice and constructing a legal system designed to prevent a repetition.

Law School Law International

LAWS-6458 (2) Creative Writing for Lawyers

Requires substantial writing and reading. Begins with participants bringing to class a piece of creative writing consisting of three to five thousand words. Each session consists of one hour of discussion and critique of an assigned writing exercise that everyone has prepared for the class, and one hour of workshop critique of each participant's longer work, in turn.

Law School Law Research and Writing

LAWS-6501 (2-3) The Practice of Labor and Employment Law

Focuses on aspects of the practice of employment law, rather than the examination of legal doctrines. Discusses typical issues presented in advising and litigating on behalf of employers and employees. Topics include special attention to ethical issues.

Law School Law

LAWS-6502 (2) Wildlife and the Law

Examines the law that protects wildlife, its habitat, and biodiversity. Explores human-caused threats including habitat destruction, illegal trade, and climate change. Focuses on statutes, case law, environmental ethics, and current controversies to highlight legal, scientific, and political strategies for protecting biodiversity. Particular emphasis is placed on the U.S. Endangered Species Act.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-6503 (3) Law and Social Sciences

Explores disparities in criminal sentencing and death penalty cases; quality and effectiveness of legal representation for indigent criminal defendants; relationship between modifications in traditional steps in legal process; connection between alternative tort doctrines and volume of litigation, trial rates, plaintiff success rates and award size; impact of congressional statutes and US Supreme Court decisions on handling and outcomes of habeas corpus petitions.

Law School Law Jurisprudence and Perspective

LAWS-6508 (1) The Philosophy of Law

Questions the nature of law, characteristics and considerations of a legal system, rights and from where they come; thinking like a lawyer, basic techniques of legal reasoning, difference between doctrinal and normative legal analysis. Explores law's frontier and what distinguishes law from morality or politics. Focuses on influential texts from the end of WWII to the end of the Cold War. Prerequisites: Restricted to Law students only.

Law School | Law | Jurisprudence and Perspective

LAWS-6510 (2-3) International Environmental Law

Examines international environmental law, including transboundary impacts and global issues. Addresses such issues as intergenerational equities, principles of compensation, and if international environmental norms should receive special environmental norm consideration. A course in public international law is not a prerequisite, but students who have not taken such a course will probably find it useful to do some additional background reading. Offered in alternate years.

Law School | Law | International

LAWS-6511 (3) Labor Law

Includes the subjects of evolution of labor relations laws; how a collective bargaining relationship is established; negotiation of the collective bargaining agreement; labor and the antitrust laws; and rights of the individual worker. Course materials frame the issue of how a developed or postindustrial democracy deals with the problems that arise out of the employment relationship: of the choices between laissez-faire, substantive regulation, and the private ordering of the employment relationship through the collective bargaining process.

Law School | Law | Business

LAWS-6513 (2) Crime Victims Rights and Victim Counseling and Advocacy

Involves highly experiential and participatory form of learning related to the rights and needs of victims of crime. Legal and constitutional aspects of crime victims' rights and advocacy are considered. Includes a training component by Moving to End Sexual Assault, a Boulder based organization. After training by MESA, students will complete 120 hours of volunteer service on the MESA hotline as well as attend various meetings. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-6518 (3) Introduction to Islamic Law

Examines the Formative Era of Islamic Law, through its sources and methodologies. Examines the Established Era of the Schools of Law including differences between Sunni and Shiite Islamic Law. Examines human rights, terrorism, political Islam, women's rights and rights of religious minorities, criminal law, and finance law, and the growing role of fundamentalism in these areas. Examines the relevance of Islam and Islamic law in today's world.

Law School | Law | International

LAWS-6521 (3) Employment Law

Entails a survey of employment-at-will, workplace safety, workplace torts; ERISA and retirement, workers' compensation; controls on hours and wages; health insurance; disability and unemployment compensation.

Law School Law Business

LAWS-6528 (3) Capital Punishment in America

Surveys the history and current status of capital punishment in the United States, with a critical examination of arguments both for and against the death penalty.

Law School Law Jurisprudence and Perspective

LAWS-6531 (3) Comparative Employment Law

In today's globalized world, lawyers are increasingly likely to encounter issues involving foreign employment. The course will provide substantive knowledge about foreign employment law and its relation to American law, as well as a comparative framework to assess the relative merits of the American approach to employment law.

Law School Law International

LAWS-6541 (2) Colorado Worker's Compensation Theory and Practice

Introduces the legal theories that underlie the no-fault compensation system, its historical evolution, policy conundrums, and ethical quandaries. Teaches the application of the procedural rules most frequently utilized in administrative setting. Studies the Workers' Compensation Act, the Workers' Compensation Rules of Procedure, and the Office of Administrative Courts Rules of Procedure. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-6551 (3) Employee Benefits and Compensation Law

Examines past and present employee benefits and compensation practices among private and public employers. Covers ERISA and defined benefit, defined contribution, and welfare benefit plans; equity awards granted by corporations; equity awards granted by LLCs and partnerships; nonqualified deferred compensation and Section 409A of the IRS; golden parachutes and Sections 280G and 4999 of the IRC. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-6601 (3) Corporate Transactions in Latin America

Introduces students to an overview of Latin American commercial and civil law systems, looking closely at Napoleonic and Chilean law. Explores the choice legal structures available for Latin American corporations; contract law that regulates business transactions in Latin America; and exploration of the way in which Latin American countries have joined international business trade agreements that pertain to Latin American nations such as the Vienna Convention and Gatt.

[Law School](#) [Law](#)

LAWS-6602 (3) Cultural Property Law

Concerns domestic and International regulation of property that expresses group identity and experience. Organized around traditional categories of property (real, personal, and intellectual), the course covers historic preservation, archeological resources, art and museum law, with attention to indigenous people's advocacy on burial sites, traditional lands, ceremonies, music, symbols, ethnobotany, genetic information, and language. May satisfy upper-level writing requirement. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Envir, Nat Resources, Amer Ind](#)

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LAWS

LAWS-6708 (1-3) Special Topics

Explores special topics in law. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

LAWS-6712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007, decision in Massachusetts v. EPA, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress.

[Law School](#) [Law](#) [Envir, Nat Resources, Amer Ind](#)

LAWS-6722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail competition. Prerequisites: Restricted to Law students only.

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LAWS-6732 (3) Renewable Energy Project Finance and Development

Examines renewable energy and how legal topics impact financing projects. Reviews structure, regulation, and functioning of electric energy industry and laws applicable to development, ownership and operation of renewable energy projects across technologies. Addresses legal policy, economic and financing issues associated with expansion and improvement of the transmission grid to support renewable energy development. Prerequisites: Restricted to Law students only.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-6803 (3) Quantitative Methods

Equips students to deal effectively with experts, whether as consultants or as adverse witnesses, and to enable the identification of a quantitative issue. Helps students to become multi-dimensional in quantitative literacy. Enables students to be comfortable reading statistical arguments, performing basic analyses, writing about statistics, expressing quantitative ideas in graphs, questioning an expert, and understanding the power of computer programming.

Law School | Law | Litigation and Procedure

LAWS-6856 (2) Advanced Legal Research

Offers an in-depth look at research resources and methods. Includes sources from the judicial, legislative, and executive branches of federal and state government; research in topical areas such as environmental law, taxation, and international law; and extensive coverage of secondary and nonlaw resources. Covers both print and electronic sources. Students will have several assignments and a final project.

Law School | Law | Research and Writing

LAWS-6866 (1) Colorado Legal Research

Surveys resources and methods to effectively research Colorado law. Covers primary and secondary resources including Colorado statutes, cases and digests, regulations, and constitution and practice materials. Covers how to research Colorado municipal law and other Colorado topics. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-6876 (2) Legal Research Skills for Practice

Approaches legal research from a practice-focused perspective using hands-on sessions in the library. Instructs: how to find and use resources specific to a particular practice area; how to evaluate and weigh strengths and weaknesses of the various legal resources available; and, how to use legal resources efficiently. Includes research strategies and methods, primary and secondary resources, and research using library catalogs and Westlaw, Lexis, and other vendors. Prerequisites: Restricted to Law students only.

Law School | Law | Research and Writing

LAWS-6886 (3) Advanced Legal Research and Analysis

Develops students' ability to think critically about and solve current legal problems. Evaluates the benefits and detriments of both print and on-line legal resources, and how to create an efficient research plan. Formulates and applies research strategies to real-world legal problems, and uses legal analysis to refine and improve research results. Note: students who have taken LAWS 6856 Advanced Legal Research course may not enroll in this course. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-6896 (3) Advanced Legal Research and Writing for Practice

Advances and improves legal research and writing skills learned in first year. Proposes variety of assignment types across substantive and procedural areas to prepare for experiences as summer associates or new attorneys. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7003 (3) Federal Courts

Looks at structure and jurisdiction of the federal courts, emphasizing problems of federalism and separation of powers and their relationship to resolution of substantive disputes.

Law School Law Litigation and Procedure

LAWS-7005 (3) Media Law

Surveys common, statutory, and regulatory law as applied to the mass media. Focuses on the law as it affects the gathering and publishing of news. Also examines the regulation of the electronic media.

Law School Law

LAWS-7011 (3) Creditors' Remedies and Debtors' Protection

Examines typical state rights and procedures for the enforcement of claims and federal and state law limitations providing protection to debtors in the process. Includes prejudgment remedies, statutory and equitable remedies, fraudulent conveyance principles, and exemptions and other judicial protections afforded debtors. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-7013 (2) Supreme Court Decision Making

Students deliberate over several important cases as "Justices" of the Supreme Court. Class is divided into three "Courts" with the first hour spent in deliberation and the second hour in discussion of the deliberative process as well as the substantive issues.

LAWS-7015 (3) First Amendment

Examines speech and religion clauses of the First Amendment. Includes the philosophical foundation of free expression, analytical problems in First Amendment jurisprudence, and the relationships between free exercise of religion and the separation of church and state. Prerequisites: Restricted to Law students only.

LAWS-7019 (1-2) Advanced Clinical Practicum

Enables a clinical; student an optional 1-2 credit course to complete an ongoing clinic project that does not reach its natural conclusion during the regular term of the clinic. The practicum may be used in connection with any existing clinical course, but only with permission, and under the supervision of the clinical faculty member. A clinical student must complete a minimum of 50 hours of work per credit taken. Prerequisites: Restricted to Law students only.

LAWS-7021 (3-4) Bankruptcy

Briefly examines nonbankruptcy business rehabilitation devices, followed by basic principles of federal bankruptcy law and the bankruptcy court system. Concludes with attention to business reorganizations under Chapter 11 of the Bankruptcy Code. Recommended prereq., LAWS 6001 and 7011.

LAWS-7023 (2) Jury Selection and History

Studies the history of the jury from ancient times through the implications of Apprendi, the grand jury from the time of Henry II through modern federal practice, and current jury selection procedures, both federal and Colorado, both civil and criminal. Experienced trial attorneys will work with students to demonstrate jury selection.

LAWS-7024 (2-3) Real Estate Planning

Considers various contemporary legal problems involved in the ownership, use, development, and operation of real estate. Emphasizes the income tax and financing aspects of commercial and residential use and development such as shopping plazas and apartment buildings. Same as ACCT 6730.

LAWS-7025 (3) Civil Rights Legislation

Presents a comprehensive study of federal civil rights statutes briefly reviewed in other courses (e.g., Constitutional Law or Federal Courts). Studies federal civil rights statutes, their judicial application, and their interrelationships as a discretely significant body of law of increasing theoretical interest and practical importance.

Law School Law Government and Public

LAWS-7029 (3) Appellate Advocacy Clinic

Provides a clinical course that enables students to work on briefs of criminal cases being handled by the Appellate Division of the Public Defender or Attorney General's Office. Instruction in oral advocacy is given. Enrollment limited to eight students.

Law School Law Practice: Clinical & Simulation

LAWS-7031 (3) Regulation of Financial Institutions

Focuses on the core banking law and works outward to cover a broader spectrum of bank-like financial institutions. Covers bank licensing, restrictions on bank business, regulating safety and soundness of banks, consumer protection of depositors and other bank customers, and regulatory examination and enforcement. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-7045 (3) Criminal Procedure: Adjudicative Process

Focuses primarily on criminal procedure at and after trial. Looks at bail, prosecutorial discretion, discovery, plea bargaining, speedy trial, jury trial, the right to counsel at trial, double jeopardy, appeal, and federal habeas corpus.

Law School Law Litigation and Procedure

LAWS-7055 (3) Education Law

Considers issues raised by the interaction of law and education. Issues may include the legitimacy of compulsory schooling, alternatives to public schools, socialization and discipline in the schools, and questions of equal educational opportunities.

Law School Law Government and Public

LAWS-7061 (1) Contract Drafting

Begins with value creation by transactional lawyers, and emphasizes the opportunity for lawyers to reduce information and agency costs, and mitigate strategic behavior by using tools such as disclosure, representation and warranties, incentive compensation and earnouts. Shifts to negotiation and drafting, focusing on basic drafting principles and strategies to advance one's clients' interests. Introduces the basic framework of contracts (recitals, reps, and warranties, capitalized terms, definitions, indemnifications and escrow). Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Business](#)

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Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

LAWS

LAWS-7065 (3-4) Immigration and Citizenship Law

Covers legal issues pertaining to noncitizens of the United States, especially their right to enter and remain as immigrants and nonimmigrants. Topics include admission and exclusion, deportation, and refugees and political asylum. Approaches topics from various perspectives, including constitutional law, statutory interpretation, planning, ethics, history, and policy. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [International](#)

LAWS-7079 (2) Wrongful Convictions

Focuses on the issues and remedies in cases of people who have been convicted, whose traditional appellate remedies have been exhausted, and who continue to claim actual innocence. Preference given to those who have taken or are taking more criminal procedure courses.

[Law School](#) [Law](#)

LAWS-7085 (2) Law and Religion

Uses judicial decisions as well as historical and theoretical materials to explore significant aspects of the relationship between law and religion. The religion clauses of the First Amendment are a central but not exclusive subject of study. Offered in alternate years.

[Law School](#) [Law](#) [Jurisprudence and Perspective](#)

LAWS-7095 (2) Women in Law

Explores the role of women in the legal system by looking at women as parties, jurors, witnesses, lawyers, law professors, and judges. Explores the relationship of law and society to women as victims and offenders. Investigates law and society's response to adoption, lesbian/gay issues, rape, surrogate and bad mothers, and sexual harassment.

Law School Law

LAWS-7100 (2-3) International Criminal Law: Theory and Practice

Exposes students to the rapidly growing body of jurisprudence, both international and national, wherein international humanitarian and human rights law are being applied for the purposes of prosecution, trial and punishment of individuals alleged to be responsible for the commission of war crimes, crimes against humanity, genocide and, more recently, terrorism. Prereq., LAWS 6400.

Law School Law International

LAWS-7101 (4) Deals: Engineering Financial Transactions

Explores the business lawyer's role in creating value by helping clients identify, assess, and manage business risks through efficient contract design while achieving the optimal legal, tax or regulatory treatment for the deal. Includes case studies of actual transactions.

Law School Law Business

LAWS-7102 (2-3) Oil and Gas

Deals with the legal problems associated with private arrangements for the ownership and development of oil and gas: deeds and leases to oil and gas rights, trespass, adverse possession, implied covenants in leases, conveyances of fractional interests, and the interaction of private rights and conservation regulation. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7105 (3) Family Law

Focuses on nature of marriage, actions for annulment and divorce, problems of alimony and property division, separation agreements, and custody of children. Also considers illegitimacy, abortion, contraception, the status of married women in common law and under modern statutes, and relations of parent and child. Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-7106 (1-2) Moot Court Competition

Offers an intensive involvement in legal research, appellate brief writing, and oral arguments in a competitive context. Student finalists may continue involvement in regional and national competitions. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7111 (3) Contract Theory: Collisions of Contracting and Culture

Explores various contract theories and principles emanating from classical and neoclassical law, legal realism, law and economics, critical legal studies, law and society, relational theory, and others. Considers and critiques these theories as applied to particular contracting cultures, especially as applied to construction contracts.

Law School | Law | Business

LAWS-7115 (2) Juvenile Justice

Covers a wide array of issues dealing with the legal rights of the unborn, children, and juveniles. Covers the legal status of parent-child abuse, delinquency and crime, and emancipation. Prerequisites: Restricted to Law students only.

Law School | Law | Family, Gender, and Health

LAWS-7116 (1) Barristers Council

Law School | Law

LAWS-7121 (3) Advanced Contracts: Commercial Transactions

Studies Article 2 and Article 2A of the Uniform Commercial Code, together with the Convention and the International Sale of Goods. Advanced contracts topics are explored in depth. Among other subjects, warranties, title, remedies, and risk of loss in the sale of lease of goods will be studied.

Law School | Law | Business

LAWS-7122 (2-3) Mining and Energy Law

Addresses major issues affecting the development of mineral resources through mining activity. Includes the regulation of the impacts of mining on the environment on both public and private land. Covers the Mining Law of 1872, the Federal Coal Leasing Amendments, and state regulation of the impacts of mining on the environment.

Law School | Law | Envir, Nat Resources, Amer Ind

LAWS-7125 (2) Advanced Domestic Relations

Offers advanced study of several domestic relations subjects, including both theoretical and lawyering issues. Tentative subjects include

discovery, client interviewing and deposition preparation, asset valuation, working with expert witnesses, children as clients, and alternative dispute resolution. Recommended prereq., LAWS 7105.

Law School Law

LAWS-7128 (2-4) Jurisprudence

Addresses a number of fundamental questions, such as: What is law? What should it be? How is it created? Our readings consist of cutting-edge articles from leading modernist/postmodernist schools of thought including legal formalism, legal realism, interpretive theory, law and economics, feminist jurisprudence, critical legal studies, and law and literature. Same as LAWS 8128.

Law School Law Jurisprudence and Perspective

LAWS-7132 (3) Energy, Insecurity, Sustainable Law

Examines why national security deals not only with armed aggression and the ability to thwart military invasions or subversion, but also includes critical threats to vital national and international support systems such as the economy, energy, and the environment.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7135 (3) Parent, Child, and State

Examines the legal rights of parents and children in a constitutional framework, as well as the state's authority to define and regulate the parent-child relationship. Addresses rights of parents and children to freedom of expression and religious exercise, termination of parental rights and adoption, paternity orientation, and culture in defining the family.

Law School Law Family, Gender, and Health

LAWS-7145 (3) Comparative Family Law

Examines and critiques law, legal institutions and traditions of the country of focus and the US as they affect children, families, and work. Enhances research and writing skills, including field and international research. Contributes to host country through scholarship and service. Increases cultural competence through active engagement with peers and with social justice issues in another country. Includes required field study component and service learning project over spring break. Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-7154 (3) Land Use Planning

Explores mechanisms for public control of private land uses, such as planning, zoning, and regulation of land development; including consideration of federal and state constitutional and statutory limitations on local governments. Offered in alternate years.

Law School Law Property

LAWS-7159 (2) Advanced Trial Advocacy

Offers an advanced course covering trial practice elements. Open only to students who have taken LAWS 6109. Prerequisites: Restricted to Law students only.

Law School Law Practice:Clinical & Simulation

LAWS-7164 (2) Land Conservation Law

Focuses on private land conservation efforts in the United States, and particularly Colorado, and also considers public land conservation programs. Analyzes real property principles and instruments used to protect land, and the development and acceptance of conservation easements in gross as a mechanism for protection, financing mechanisms for land conservation, including direct government funding and indirect funding through tax incentives at the federal, state and local levels. Understanding of Real Property and Tax concepts helpful.

Law School Law Property

LAWS-7169 (2) Motions Advocacy

Provides practical training in preparing and arguing pretrial, post-trial, and chambers motions to an experienced federal judge based on materials from actual case files. Assigns some research papers. Limited to 15 third-year students with interest in trial advocacy and willingness to participate in confrontational exercises. Counts as practice hours. Prerequisites: Restricted to Law students only.

Law School Law Practice:Clinical & Simulation

LAWS-7200 (3) Anthropology of Law

Reviews the relationship between the social and cultural features of both developed and developing country societies and the formal and informal legal institutions within them. Considers the nature of social control and constraint, judicial reasoning, fact finding, conciliation, mediation and arbitration, and legal discourse.

Law School Law

LAWS-7201 (3) Antitrust

Studies American competition policy: collaborations among competitors, including agreements on price and boycotts, definition of agreement, monopolization, vertical restraints such as resale price maintenance, and territorial confinement of dealers. Same as TLEN 5270. Offered in alternate years.

Law School Law Business



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

LAWS

LAWS-7202 (3) Environmental Law

Examines and analyzes important federal pollution control statutes, including the National Environmental Policy Act, the Clean Air Act and Clean Water Act, Solid Waste Act, and Superfund. Considers related economic theory, ethics, and policy issues.

[Law School](#) [Law](#) [Envir, Nat Resources, Amer Ind](#)

LAWS-7205 (3) Administrative Law

Covers practices and procedures of administrative agencies and limitations thereon, including the Federal Administrative Procedure Act, and the relationship between courts and agencies.

[Law School](#) [Law](#) [Government and Public](#)

LAWS-7207 (3) Federal Estate and Gift Tax

Analyzes federal estate and gift taxation of inter vivos and testamentary transfers, introduces income taxation of estates and trusts, and involves elementary estate planning. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Taxation](#)

LAWS-7209 (4) Natural Resources Law Clinic

Offers hands-on experience in the practice of natural resources law in the Rocky Mountain region to a select number of clinic students. The clinic's docket of active cases focuses on public land law and the environmental statutes protecting those lands and their resources. Students participate in projects that test the full range of lawyering skills, including traditional litigation, administrative advocacy,

legislative drafting, and the conduct of complex negotiations and settlements. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7211 (3) Business Planning

Focuses on the development and use of concepts derived from a number of legal areas in the context of business planning and counseling. Topics such as formation of business entities, sale of a business, recapitalization, division, reorganization, and dissolution are considered. Prereqs., LAWS 6007, 6201, and 6251 or 6211.

Law School Law Business

LAWS-7212 (2) Environmental Litigation

Examines the litigation strategies and procedures used to enforce and defend against enforcement under environmental protection statutes, such as the Clean Water Act, Clean Air Act, Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, and the Toxic Substances Control Act. Covers civil enforcement, and citizen's suits.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7217 (2) Estate Planning

Discusses problems and solutions for owners of various-sized estates and different types of assets including jointly-held property, stock in closely-held corporations and farms, analysis of federal taxation of generation-skipping transfers in trust, postmortem estate planning, and drafting of trusts and wills. Prerequisites: Requires pre-requisite course of LAWS 7207.

Law School Law Taxation

LAWS-7221 (2-3) Government Regulation of Business.

Covers themes that explore the nature of the regulatory state and the realities of how businesses react to regulation. Provides an understanding of regulatory institutions; the tools of governmental regulation; and a critical perspective on regulation.

Law School Law Business

LAWS-7222 (2-3) Environmental Decision-Making

Explores the foundational issues that underlie agency decision-making, including environmental ethics, cost-benefit analysis, risk assessment, constitutional law, and administrative law. Compares and contrasts National Environmental Policy Act and the National Historic Preservation Act and the Endangered Species Act.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7228 (2) Intellectual Origins of the Constitution

Examines the views of the Constitution's framers as expressed in contemporaneous and antecedent writings and debates. Offered in alternate years.

Law School Law

LAWS-7232 (3) Energy Justice

Establishes why nearly a third of the world populated by the energy oppressed poor, presents a major national and international "legislative" or socio political problem calling for answers from governments and civil societies in the developed and developing world. Explains and elucidates the concept of energy justice, its jurisprudential heritage, and its meaning and relevance in contemporary society. Case studies present problem solving frameworks spanning the political, social, behavioral, engineering, natural sciences, and law. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7241 (3) Telecommunications Law and Policy

Examines laws governing telecommunications industries, including federal and state regulation and international aspects. Includes telephone, cable, satellite, cellular, and other wireless systems, and the Internet. Same as TLEN 5240. Prerequisites: Restricted to Law students only.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7248 (3) History of Criminal Justice

Explores the social, cultural, and legal history of Anglo-American criminal justice from the 17th to the 20th centuries. Also examines tensions between various methods that historians employ to study crime and law.

Law School Law

LAWS-7251 (3) Non-Profit Law

Examines the creation of a non-profit organization, in particular whether to choose a trust or a corporate form, how to qualify for federal tax exemption, and differences between private foundations and public charities. Examines fiduciary duty issues, restrictions on political activity and private benefit, and unrelated business income tax. Addresses tax incentives for charitable giving and state fundraising laws.

Law School Law

LAWS-7255 (3) Local Government

Studies state legislative and judicial control of the activities, powers, and duties of local governmental units, including home-rule cities and counties, and some problems of federal, state, and local constitutional and statutory limitations on governmental powers when exercised by local governmental units (e.g., the powers to regulate private activities, tax, spend, borrow money, and condemn private property for public uses). Offered in alternate years.

Law School Law Government and Public

LAWS-7261 (3) Corporate Finance

Examines a variety of important legal issues related to the funding and financing corporations including creditor protection laws, the Trust Indenture Act of 1939, fiduciary duties, bond indenture provisions, securities laws, and rights of equity holders. Covers efficient capitalization structures, corporated valuation techniques, capital markets and the efficient market theory, and cost of capital concept. Prereq., LAWS 6211 or 6251.

Law School Law Business

LAWS-7271 (3) Venture Capital and Private Equity

Provides overview of the legal and financial principles to represent privately held companies, their founders and managers, and their investors. Emphasizes transaction structuring rather than judicial opinions. Includes the organization and financing of start-ups, structuring buyout transactions, exit strategies, legal organization of investment funds and other financial intermediaries. Discusses the relevant regulatory landscape, including securities law, bankruptcy, ERISA, and tax law.

Law School Law Business

LAWS-7285 (2-3) Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers and provides an opportunity to grow as colleagues and teammates. Recommended prereq. LAWS 7055. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-7300 (2-3) International Litigation

Examines the special issues that arise in litigation in U.S. courts when one or more of the parties is a foreign individual, corporation, or government, or when the subject of the litigation concerns events occurring wholly or partly outside of this country. Includes personal jurisdiction over foreign defendants, extraterritorial service of process and evidence gathering, choice of forum, foreign sovereign immunity, the act of state doctrine, extraterritorial application of U.S. law, and recognition of enforcement of foreign judgments.

Law School Law

LAWS-7301 (2-3) Copyright

Examines state and federal laws relating to the protection of works of authorship ranging from traditional works to computer programs. Studies the 1976 Copyright Act as well as relevant earlier acts. Gives attention to state laws, such as interference with contractual relations, the right of publicity, moral right, protection of ideas, and misappropriation of trade values, that supplement federal copyright. Same as TLEN 5265.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7303 (3) Complex Civil Litigation

Covers civil procedure in modern complex multiparty suits, including class actions in such settings as employment discrimination and mass torts, and problems in discovery, joinder, res judicata, collateral estoppel, and judicial management in such suits. Offered in alternate years.

Law School Law Litigation and Procedure

LAWS-7307 (3) Taxation of Natural Resources

Considers the federal income tax aspects applicable to the exploration for, the development of, and the operation of natural resources, as well as the financing thereof. Also considers oil and gas, hard minerals, timber, and water. Offered in alternate years. Recommended prereq., LAWS 6007.

Law School Law

LAWS-7309 (2-4) American Indian Law Clinic

Offers a clinical education course involving participation in the representation and advocacy of Indian causes--land or water claims, Indian religious freedom, job or other discrimination based on race, and issues implicating tribal sovereignty. Recommended prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7310 (3) International Dispute Settlement

Examines various mechanisms for the settlement of international disputes. Includes negotiation, inquiry, mediation, conciliation, arbitration, and adjudication. Focuses on intergovernmental dispute resolution.

Law School Law International

LAWS-7311 (2-3) Patent Law

Covers selected topics, such as patentable subject matter, patentability, and utilization of patent rights through licensing and infringement litigation. Covers practice and procedure of the patent and trademark office.

[Law School](#) | [Law](#) | [Intell Prop, Tech, and Telecom](#)

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Courses

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LAWS

LAWS-7320 (3) International Criminal Law

Surveys international human rights law and international crime and punishment. Addresses idea of rights from a historical, philosophical, conceptual and analytical perspective; explores the "Primary rules of conduct" as well as adjudication and remedies, and selected rights from a comparative perspective. Recommended prereq., LAWS 6400.

[Law School](#) [Law](#) [International](#)

LAWS-7321 (1-2) IP and Technology Contracting

Covers transactions, and often high-tech deals involving intellectual property rights. Studies IP ownership; assignment or rights; commercialization transactions (licensing, distribution, strategic); antitrust; and emerging issues. Gives students essential tools to draft and analyze technology contracts. Prereqs., LAWS 6301 or 7301.

[Law School](#) [Law](#) [Intell Prop, Tech, and Telecom](#)

LAWS-7323 (2) Patent Litigation

Focuses on unique aspects of patent litigation: substantive patent law, civil procedure, federal jurisdiction, and litigation strategy; includes claim construction, infringement, anticipation and obviousness defenses, unenforceability challenges, declaratory judgments, injunctions, damages, settlements, licenses, and trial strategy. Of interest and useful to those interested in intellectual property generally, not just patents or in litigation.

[Law School](#) [Law](#) [Intell Prop, Tech, and Telecom](#)

LAWS-7325 (3) Election Law

Examines the rapidly evolving field of election law: the right to vote, voting procedures, redistricting, candidate selection, campaign finance laws, and direct democracy. Emphasizes federal law, including applicable constitutional jurisprudence.

Law School Law Government and Public

LAWS-7331 (2) Sports Law

Covers the application of rules from agency, antitrust, contracts, constitutional law (including sex discrimination), labor law, property, torts, unincorporated associations, and other subjects to those persons involved in the production and delivery of athletic competition to consumers. Explores the development of the application of these rules to a sports setting and related economic issues. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-7333 (2) Advanced Evidence: Forensic Science and the Criminal Courts

Explores the admissibility of forensic science opinion and expert testimony, its use as evidence at a trial, and the challenges that such evidence may pose for the courts and the entire criminal justice system in the future.

Law School Law Litigation and Procedure

LAWS-7335 (1) The Law of Presidential Elections

Examines the laws and regulations that uniquely shape presidential selection, analyzing practical applications as well as the broader constitutional and policy considerations. A combination of federal, state, and local laws shapes how Americans select their president. But more than ever before, Americans are questioning the rules that influence presidential selection, such as the major party primary system, ballot access, presidential campaign financing, and the electoral college.

Law School Law

LAWS-7341 (3) Trademark and Unfair Competition Law

Examines trademark protection, the interaction of trademark and unfair competition law with other intellectual property doctrines, the requirements for acquiring and retaining federal trademark rights, false advertising and other misrepresentations, the right of publicity and related claims, remedies for infringement, and international aspects of trademark protection.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7345 (2) Comparative Criminal Procedure

Takes an in-depth look at some of the basic features of modern criminal justice systems that share the civil law tradition with the hope that such study will provide a vehicle for a deeper understanding of the strengths and weaknesses of the American system of criminal justice. Prereq., LAWS 6045.

Law School Law Litigation and Procedure

LAWS-7361 (2) Privacy, Security, and Digital Rights Management

Introduces students to the laws that regulate the basic technologies of the Internet and the management of information in the digital age. It examines the most significant statutes, regulations, and common law principles that comprise this emerging legal framework, including the Federal Wiretap Act, the HIPAA Privacy Rule, and the Digital Millennium Copyright Act.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7371 (3) Standardization and Standards Wars

Examines current issues in the standardization of telecommunications and information technologies. Covers the importance of standards, government and private sector perspectives, and the impact of information age technologies on standards of development. Emphasizes key national and international organizations.

Law School Law Intell Prop, Tech, and Telecom

LAWS-7375 (3) U.S. Races and Justice Systems

Examines the unique but related legal, social, and economic problems and accomplishments of those persons in this country whose ancestry originated in Africa, Asia, Latin America, or North America, and explores the developing literature on whites and whiteness.

Law School Law

LAWS-7381 (3) Intellectual Property Counseling and Prosecution

Introduces strategic development and procurement of IP, including patents, trademarks, copyrights, and trade secrets. Evaluates the latest cases and legal trends from a practical and strategic perspective. Focuses on widely accepted best practices and critical thinking in these areas. Prerequisites: Restricted to Law students only.

Law School Law

LAWS-7401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes.

Law School Law Business

LAWS-7402 (2) The Law of Toxic and Hazardous Wastes

Examines the EPA's federal hazardous waste statutes, including the Resource Conservation and Recovery Act of 1976 (RCRA), and the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). Analyzes the RCRA "Cradle-to-grave" hazardous waste program, and addresses the evolving CERCLA liability scheme and cleanup process.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7405 (2-3) Health Law 2: Medical Malpractice and Quality Regulation

Explores (1) the law controlling ethical issues that arise during the delivery of medical care, (2) the substantive law of medical malpractice and tort reform aimed at reducing the frequency and severity of medical malpractice verdicts, and (3) the practical aspects of litigating a medical malpractice case. Cross-listed at the Health Sciences Center; will include field trips there.

Law School Law Family, Gender, and Health

LAWS-7406 (1) International Moot Court Competition

Open only to students who actively participate in the seminar preparing for the competition, in the preparation of memorials for the competition, and in the practice of oral arguments or regional oral arguments.

Law School Law Practice:Clinical & Simulation

LAWS-7409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several legal disputes. Credit is not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course.

Law School Law Practice:Clinical & Simulation

LAWS-7411 (2-3) Mergers, Acquisitions, and Reorganizations

Studies the planning of corporate mergers, acquisitions, and reorganizations, examining the application and integration of state corporate law, federal securities law, accounting principles, tax law, labor law, products liability law, environmental law, ERISA, and antitrust law.

Law School Law Business

LAWS-7420 (2) European Union Law

Covers all the essential aspects of the EU law: EU institutions, competences, the making and the application of EU law, and the content of the fundamental principles of EU law and the common market.

Law School Law

LAWS-7425 (2-3) Health Law

Acquaints students with the issues arising at the interface between law and medicine through analysis of cases and other materials. Critically analyzes methods used by courts and legislatures to address medical/legal problems in an effort to determine whether the legal resolution was reasonable and appropriate in light of medical, social, and political considerations. Offered in alternate years.

Law School Law Family, Gender, and Health

LAWS-7428 (3) Bioethics Law and Literature

Interdisciplinary study of law, medicine, and bioethics. Addresses such issues as confidentiality in medical treatment, rejecting life-sustaining treatment, death and dying, reproductive law and genetic technology, human experimentation, and access to health care.

Law School Law

LAWS-7429 (2) Alternative Dispute Resolution

Examines a variety of dispute resolution processes, such as mediation, arbitration, minitrials, and court-annexed settlement procedures, as alternatives to traditional court adjudication. Credit not given for both LAWS 7419 Legal Negotiation and Dispute Resolution and this course. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7439 (2-3) Mediation

Explores mediation, one of the more important methods of alternative dispute resolution, and the legal issues that may arise related to mediation. Considers what kinds of persons and disputes are most appropriate for mediation. Includes role playing.

Law School Law Practice: Clinical & Simulation

LAWS-7440 (3) International Human Rights and Humanitarian Law

Surveys international human rights both in law and in philosophy, both current and historical.

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LAWS

LAWS-7449 (2-4) Juvenile Law Clinic

Examines the world of child welfare from the view of the child client, by representing their best interests in abuse and neglect cases. As Guardians ad litem, students will represent children in abuse and neglect cases from the beginning, at the temporary shelter hearing, through the conclusion of the case at a permanency orders hearing. Prereq., LAWS 6353. May be repeated up to 8 total credit hours.

[Law School](#) [Law](#) [Practice:Clinical & Simulation](#)

LAWS-7451 (3) Law and Finance for Entrepreneurs

Studies unique legal problems faced by entrepreneurs, including formation issues (choice of entity, rights of the founders, initial investors), operation issues (governance, key employees, intellectual property, financing), IPOs, and buy-outs.

[Law School](#) [Law](#) [Business](#)

LAWS-7458 (2) Law and Literature

Focuses on the question of what literature can teach lawyers through a variety of literary works and films. Covers traditional works by Shakespeare, Tolstoy, Camus, Kafka, and Melville, as well as more contemporary works by Toni Morrison and Norman Mailer. Several short reflection papers, a journal, and a final eight page paper are required.

[Law School](#) [Law](#)

LAWS-7475 (2) Advanced Torts

Studies selected tort actions and theories. Topics covered may include "Dignitary torts" (e.g., defamation, privacy, etc.), business torts, and product liability. Offered in alternate years.

Law School Law Government and Public

LAWS-7505 (2) Sexuality and the Law

Examines the regulation of sexuality in local, state, and federal law, with particular emphasis on sexual orientation. Explores how sexuality shapes, and is shaped by, an array of laws and policies, which may include family law, military regulations, tax law, employment law, trusts and estates, obscenity law, and criminal law.

Law School Law Family, Gender, and Health

LAWS-7507 (2-3) State and Local Taxation

Examines the operation of the income, property and sales tax used to finance our state and local governments. Includes requirements of equal protection and due process. Covers jurisdiction to tax allocation of the tax base among different state and local governments. Same as ACCT 6760.

Law School Law

LAWS-7509 (1) Mock Trial Competition

Student teams further develop trial and advocacy skills in a competitive mock-trial format involving two or more rounds of trials. Requires preparation of trial briefs and drafting other court pleadings and documents. Credit is limited to the top two teams (six students). Student finalists may continue involvement in regional and national competitions. May be repeated within the term up to 4 total credit hours. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7513 (3) Domestic Violence

Explores the law, policy, history, and theory of domestic violence. Examines the limits of legal methods and remedies for holding batterers accountable and keeping victims safe; the dynamics of abusive relationships; the history of the criminal justice system's response to domestic violence; the defenses available to battered persons who kill their abusers; the legal paradigm of the sympathetic victim; psychological and feminist theories about abusive relationships; civil rights and tort liability for batterers and third parties; and the intersection of domestic violence with international human rights.

Law School Law Family, Gender, and Health

LAWS-7515 (3) Poverty Law

Explores the legal and policy responses to poverty in the United States and addresses how the law shapes the lives of poor people and communities. Examines the extent of poverty in the United States, the root causes, and the historical development of social welfare policy. Focuses on the rights-based aspect of poverty law and various policies that attempt to ameliorate poverty. Prerequisites: Restricted to Law students only.

Law School | Law | Government and Public

LAWS-7523 (2) Juvenile Law

Takes a critical look at the juvenile justice system and how it responds to the needs of juveniles who are either delinquents and/or victims of abuse. Issues include the rights and responsibility of parents, parental responsibility programs, delinquents, and the future of our juvenile courts.

Law School | Law

LAWS-7525 (3) Race and American Law

Examines the judiciary's approach to racial discrimination from America's colonial period to the present day. Concludes with an analysis of the contemporary status of racial subordination in the legal system and considers recent scholarly critiques of the law's limitations in effecting racial justice. Employs an interdisciplinary approach and covers the experiences of American Indians, African Americans, Asian Pacific Americans, and Chicana/os.

Law School | Law | Government and Public

LAWS-7529 (1) Appellate Advocacy Competition

Gives students the opportunity to participate in an intermural appellate advocacy competition, in which a brief must be filed and reviewed, critiqued, and deemed credit-worthy by a member of the faculty. (Law School Rule 3-2-9 (b) should be consulted prior to enrollment.)

Law School | Law

LAWS-7541 (2-3) Employment Discrimination

Examines statutory and constitutional prohibitions of discrimination in employment on the basis of race, gender, age, religion, national origin, and disability.

Law School | Law | Business

LAWS-7601 (2-3) Business Transactions

Provides a practical understanding of how to apply the law in both transactional and litigation settings. Gives an interdisciplinary look at how various areas of the law are brought together in common factual settings. Teaches students to negotiate, document, and close the acquisition of a business covering the areas of practice of corporate, contracts, real property, secured transactions, and bankruptcy law. Tests, in a litigation setting, the decisions made during the acquisition stage.

Law School Law Business

LAWS-7605 (2) Refugee and Asylum Law

Focuses on protections offered under international and domestic law for persons who are threatened by persecution or other adverse conditions in their country of origin. Covers who is a refugee and the protections they have or do not have under United States and international law.

Law School Law International

LAWS-7609 (1-2) Law Practice Management

Studies the establishment of a solo or small-firm legal practice. Topics include the business structure (PC, LLC, etc.), office systems, marketing and development, staffing, liability insurance, managing time, technology, and billing. (This practice course counts toward the 14 credit hour maximum of practice hours.) Course supported by the Section of Law Practice Management of the ABA in memory of Harold A. Feder, CU Law '59.

Law School Law Practice: Clinical & Simulation

LAWS-7611 (2-3) International Business Transactions

Examines the sources of international business law, the relationship between such law and the U.S. legal system, the choice of law in international business disputes, the special issues that arise when doing business with foreign governments, the law governing international sales and the shipment of goods, and international intellectual property protection. Offered in alternate years.

Law School Law International

LAWS-7615 (4) Immigration Law and Immigrants' Rights

Addresses four broad questions: Who is a citizen of the United States? Who else can come to this country? When and why can noncitizens be forced to leave? Who has the authority to answer these questions? These questions prompt us to examine the history of U.S. immigration, the constitutional-statutory-regulatory framework that governs immigration and citizenship law, and the federal agencies that administer it. Also addresses contemporary challenges to, and assertions of, immigrants' rights. Same as PSCI 7181. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-7617 (3) International Taxation

Covers basic aspects of the United States taxation of income earned abroad by its citizens and the taxation of income derived by foreign persons from U.S. sources, including the implications of income tax treaties. Prereq., LAWS 6007 or 6157. Same as ACCT 6780.

Law School Law Taxation

LAWS-7619 (2) Entrepreneurial Law Clinic

Advise indigent clients who need legal services in the founding of their business or not-for-profit firms, registering LLCs, and drafting employment and intellectual property agreements. Prereq., two of the following courses: Agency Partnership and the LLC, Corporations, Securities, Seminar on Corporate Law, Law and Finance for Entrepreneurs, Accounting Issues for Lawyers, Patent Law, Trademark, and International Business Transactions. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7629 (1) Introduction to the In-House Practice of Law

Explores cutting edge questions around the practice of law as an employee of a business. Demonstrates how the combination of law and business can be valuable to businesses and also innovative, challenging and rewarding to legal professionals. Legal services to corporate America is changing dramatically with more entities relying on in-house counsel, compared to private practitioners, to obtain legal advice and counsel. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7725 (3) American Indian Law I

Investigates the federal statutory, decisional, and constitutional law that bears upon American Indians, tribal governments, and Indian reservation transactions. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Prereq., LAWS 7725.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-7745 (2-3) Jurisdiction in Indian Country

Examines the current state of the justice system within Indian nations today. Includes understanding the respective roles of tribal and

state law enforcement authorities, as well as the Bureau of Indian Affairs' Office of Justice Services, the Federal Bureau of Investigation, and the Drug Enforcement Administration. Examines relationship between federal and tribal courts; substantive laws; and advocates who appear before them. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Envir, Nat Resources, Amer Ind](#)

LAWS-7751 (3) Arbitration

Discusses the nature of arbitration, tactical considerations in whether to use this form or another form of dispute resolution, the drafting of effective contracts to arbitrate the enforceability of these contracts, and the enforcement of arbitration awards. Covers the preclusive effect of arbitration proceedings, multiparty arbitration, and choice of law. Students conduct simulated arbitrations.

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LAWS

LAWS-7775 (1) Gender Law and Public Policy

Examines the relationship of law and gender in criminal law, and constitutional law, using feminist theoretical perspectives as the organizing principle. Each perspective is applied to cases and materialson such topics as violence against women, prostitution, pornography, and discrimination in education and athletics.

[Law School](#) [Law](#) [Family, Gender, and Health](#)

LAWS-7809 (2-4) Technology Law and Policy Clinic

Features technology law advocacy before administrative and legislative bodies. The mission of TLPC is: 1) to train and produce students equipped to conduct thoughtful analysis, and 2) provide unbiased assistance in the public interest concerning technology issues to regulatory entities, courts, legislatures and standard setting bodies. Recommended prereqs., LAWS 6301, 6318 or 7241. LAWS 7809 and TLEN 5250 are the same course.

[Law School](#) [Law](#) [Practice: Clinical & Simulation](#)

LAWS-7846 (1-3) Independent Legal Research

Involves independent study and preparation of a research paper under faculty supervision. Students produce a research paper equivalent to a seminar research paper. a draft is submitted, subjected to critique by the faculty member, and redrafted. Available during or after the fifth semester of law school. Prereq., instructor consent. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Research and Writing](#)

LAWS-7896 (1) Independent Legal Research: Law Review

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the University of Colorado Law Review. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7906 (2) Independent Legal Research: Law Review

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the University of Colorado Law Review. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7916 (1) Independent Legal Research: Journal of International Environmental Law and Policy

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Colorado Journal of International Environmental Law and Policy. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7926 (2) Independent Legal Research: Journal of International Environmental Law and Policy

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Colorado Journal of International Environmental Law and Policy. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7936 (1) Independent Legal Research: Journal of Telecommunications and High Technology

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Journal of Telecommunications and High Technology Law. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-7939 (1-7) Extern Program

Extern credit may be earned for uncompensated work for a sponsor, which may be any lawyer, judge, or organization that employs lawyers or judges and is approved by the Academic and Student Affairs Committee. Work is done under the direction of a field instructor (a lawyer or judge as the sponsor) and a member of the law faculty. Requires a substantial writing component and 50 hours of working time per credit hour. a minimum of 1 and a maximum of 7 credit hours may be earned. Classified as practice credit. Prerequisites:

Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-7946 (2) Independent Legal Research: Journal of Telecommunications and High Technology

Gives students the opportunity to participate in the research, writing, and editing activities involved in publishing the Journal of Telecommunications and High Technology Law. Prerequisites: Restricted to Law students only.

Law School Law Research and Writing

LAWS-8005 (2) Seminar: Advanced Constitutional Law Equality and Privacy

Addresses "Equal Protection" rights under the Fourteenth Amendment and "Privacy" rights to personal autonomy. Analyzes varied constitutional grounds for recognizing or rejecting abortion rights; limits on Congressional power to pass civil rights laws granting broader rights than the Fourteenth Amendment does; treatment of sexual orientation-related laws and government actions as "Privacy" versus "Equality" matters; and "Benign"/"remedial" race- and sex-based government decisions such as affirmative action and same-sex schools.

Law School Law Government and Public

LAWS-8011 (1-3) Seminar: Humanizing Contracts: Service Learning

Examines contract theory and policy, while providing community-based service. Students analyze and discuss readings exploring doctrinal and theoretical bases of contract law, and see "Contracts in action" through participating in a service project. Requires a final paper linking theory and doctrine with service experiences. Note: this is a year-long seminar (2 credits per semester); students must enroll in both semesters but receive only one grade at the end of the year. Students participate in a service project that may include off-campus and weekend participation.

Law School Law

LAWS-8013 (2) Seminar: Habeas Corpus: The Great Writ of Liberty

Includes readings on the history of the writ, its constitutional status, and its use as a civil rights remedy, as well as case studies of important Supreme Court decisions, and a review of contemporary jurisdictional and procedural issues.

Law School Law

LAWS-8015 (1-3) Seminar: Constitutional Theory

Examines the role of the courts and the other branches of government in defining and enforcing constitutional values. Relevant readings are from philosophy, social sciences, and legal scholarship, as well as cases. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-8021 (3) Seminar: Consumer Empowerment

Considers contract theories and principles emanating from classical and neoclassical law, legal realism, law and economics, and critical legal studies. Explores and questions tensions among theories, focusing on how they interact with norms, goals, and functions of contract and consumer protection law. Observes these tensions "In action" through volunteer work with Heritage House, a home for young women who are "At risk" and cannot live with their families at this time for different reasons.

Law School Law Business

LAWS-8025 (2) Seminar: Advanced Topics in Federalism

Explores the development of "Our Federalism", the relationship between federal and state governments, from the founding period of the US Supreme Court's recent New Federalism jurisprudence. Studies historical material, commentary, and case law, and addresses how federalism is defined; the values that federalism serves; the role of federalism in our interconnected, global society; the Supreme Court's boundaries of federalism; the direction of New Federalism.

Law School Law Government and Public

LAWS-8035 (2) Seminar: Intersection of Antidiscrimination and First Amendment Law

Addresses past and continuing debates involving potential tensions between antidiscrimination principles and free speech, free exercise, and establishment clause values. Examines constitutional protections under the First Amendment and the equal protection clause, together with an array of existing and proposed federal and state antidiscrimination laws regulating employment, housing, and public accommodations, among other areas.

Law School Law Government and Public

LAWS-8045 (2) Seminar: Comparative Constitutional Law

Examines legal structures and concepts typically found in constitutions, including judicial review, distinction between legislative and executive authority, federalism and the principle of subsidiarity, the relationship between church and state, free speech and press, and social welfare rights. Examines differences between constitutional law and other domestic law, role of comparative constitutional law in domestic constitutional law adjudication. Emphasizes American and Swedish perspectives.

Law School Law Government and Public

LAWS-8055 (1-2) Seminar: Media, Popular Culture, and the Law

Examines how the institutions, practices, and the very identity of law are in part affected by the media through which law is apprehended and communicated. Hence the general question posed in this seminar: To what extent and how are the forms and methods of the new media having an effect on the perception, role, and identity of law? This is a year-long seminar.

Law School Law Government and Public

LAWS-8075 (2) Seminar: Race, Racism, and American Law

Focuses on issues of race reform law, in particular the group of issues dealing with Black Americans. (Students of all hues and persuasions are welcome.) Offers an interpretive or critical dimension, rather than a litigation-oriented one. Helps students understand how race reform law works and how attitudes and historical forces have shaped that body of law.

Law School Law

LAWS-8095 (2) Seminar: Problems in Constitutional Law

Explores how theories of social freedom and self-governance developed in the United States. Analyzes the most controversial socio-legal issues as they relate to privacy, equal protection and other questions of substantive due process. Discusses recent trends in national security and information privacy to evaluate their overall relevance to civil liberties and nascent influence on the fundamental rights debate in the US and abroad.

Law School Law Government and Public

LAWS-8101 (3) Business Law Colloquium

Business law scholars from CU and around the country present research papers at this weekly colloquium. Topics may include contracts, corporate law, securities regulation, tax, intellectual property, venture capital and private equity, and the legal profession. No prior knowledge of law and economics is expected, although some knowledge of business organizations will be useful. Prereq., LAWS 6211 or 6201. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-8103 (2) Seminar: Alternative Dispute Resolution Ethics

Explores the ethics of mediators and other alternative dispute resolvers and facilitators, of attorneys representing clients in alternative dispute resolution processes, and of judges serving in alternative roles. Issues include confidentiality, providing appropriate notice to those concerned, and avoidance of conflicts of interest.

Law School Law

LAWS-8104 (2) Seminar: Cities, Suburbs, and the Law

Explores dynamics that play out in the relationship between cities, suburbs, exurbs and other patterns of urban development. Explores the nature of local power, relations between local jurisdictions, and metropolitan and regional approaches to governance. Includes fiscal disparities, ethnic and racial segregation, sprawl and growth controls, affordable housing, transportation, and the urban/rural divide.

[Law School](#) | [Law](#) | [Property](#)

LAWS-8105 (3) Seminar: Comparative Family Law

Examines and critiques law, legal institutions and traditions of the country of focus and the U.S. as they affect children, families and work. Enhances research and writing skills, including field and international research. Contributes to the host country through scholarship and service. Increases cultural competence through active engagement with peers and with social justice issues in another country. Includes required field study component and service learning project over spring break. Prerequisites: Restricted to Law students only.

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LAWS

LAWS-8112 (2-3) Seminar: Advanced Natural Resources Law

Provides in-depth study and analysis of current problems in natural resources law, using historical, literary, and scientific materials. Includes field-trip, and requires additional field trip expenses. LAWS 6112 is strongly recommended as a prerequisite, however students must have taken or be concurrently enrolled in any three of the following: LAWS 6002, 6112, 6302 or 7725. May be repeated up to 6 total credit hours.

[Law School](#) | [Law](#) | [Envir, Nat Resources, Amer Ind](#)

LAWS-8115 (2) Seminar: Child Abuse and the Law

Explores legal responses to child abuse by examining the constitutional framework for legal proceedings, effective strategies for preventing child abuse and punishing offenders, alternatives to the current system, and cultural aspects of child abuse and the legal response to it. Examines physical abuse and neglect, and focuses on sexual abuse.

[Law School](#) | [Law](#)

LAWS-8122 (2) Seminar: Mineral Development

Deals with legal and policy issues surrounding mineral development and its environmental impacts. Emphasizes the problems associated with hard rock minerals and coal development, with some treatment of oil and gas leasing and development issues. Focuses on western public lands with some discussion of international and private lands issues.

[Law School](#) | [Law](#)

LAWS-8125 (2) Seminar: Law and the Politics of Family Law

Examines issues that have been raised under the United States Constitution with respect to state regulation of families. Topics include questions of family and individual privacy, the status of children, procreation, marriage and divorce, the definition of family relationships, and problems of federalism and the role of the Supreme Court in the regulation of families.

Law School Law

LAWS-8128 (2-3) Jurisprudence

Same as LAWS 7128.

Law School Law

LAWS-8135 (2) Seminar: Gender, Work, and Family

Explores the social and legal problems that develop at the intersection of work and family, and considers legal/non-legal solutions that have been and could be used to accommodate both women and men in their efforts to deal with these problems.

Law School Law

LAWS-8138 (2) Seminar: The Rhetoric of Law

Considers how Anglo-American law operates rhetorically, how it persuades, builds character, offers proof, approximates the truth, establishes legitimacy, and makes things happen. It will also explore the ethics of rhetoric and note the relationship of rhetoric to other bodies of legal scholarship (e.g., law and literature, legal pragmatism, law and culture). It will hone student advocacy skills, prepare students to anticipate and defend against the rhetorical stratagems of different legal actors, and enrich students' sense of professional identity. Restricted to LAWS students. Prerequisites: Restricted to Law students only.

Law School Law

LAWS-8154 (2) Seminar: Land Use Planning

Discusses public control of private land uses through planning, zoning, and regulation of land development, including consideration of constitutional and statutory limitations on legislatively created techniques. Offered in alternate years.

Law School Law

LAWS-8202 (2) Seminar: Environmental Policy

Examines issues of environmental justice, including the disparate impacts of pollution and land use controls on certain communities and ethnic groups. Topics may include concentration of waste facilities in neighborhoods occupied by poor and minority populations,

adequate protection of migrant farmworkers from the impacts of pesticide hazards, and environmental controls that inhibit economic growth and development sought by Indian tribes.

Law School Law

LAWS-8205 (3) Seminar: Law and Democratic Governance

Explores cutting-edge debates in election law. Studies different perspectives on the current controversies in the field, in addition to select opportunities to engage scholars directly about their work. Develops students' understanding of the law of democracy, exposing students to some of the best scholarship, and improving students' ability to evaluate and critique legal scholarship. Recommended prereq., LAWS 7325. Same as PSI 7171. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-8210 (2) Seminar: Comparative Law

Studies discrete topics in Jewish law such as family law, commercial law, criminal law, etc., using the text Jewish Law: Cases and Materials, and other sources such as guest lectures. The collection of books that we received from the Touro Law Center will provide a valuable resource for student research.

Law School Law

LAWS-8212 (2) Seminar: Environmental Law Practice and Policy

Focuses on the translation of environmental policies and purposes into environmental law and practice. Investigates policy issues on prevention of significant deterioration of air quality (PSD), the particulate matter national ambient air quality standard (PM NAAQS), and global climate changes. Emphasizes legal structure issues, including the role of national, state, and local governments in implementing environmental law and policy as well as counterpart global structures and mechanisms for responding to global or transboundary environmental problems. Prereq., LAWS 7202.

Law School Law

LAWS-8222 (2) Seminar: Environmental Philosophy and Law

Investigates the changing philosophical underpinnings of U.S. environmental law and policy and how philosophy and legal institutions interact.

Law School Law

LAWS-8251 (2) Seminar: Advanced Corporate Law

Explores current issues in corporate and securities law, including developments in fiduciary duties of officers and directors, corporate governance, executive compensation, revisions to the model business corporation act, and state and federal litigation reform.

Law School Law

LAWS-8285 (2-3) Seminar: Education and the Constitution

Teaches the substantive constitutional law governing public education. Students will teach constitutional materials to high school students in the local Denver Metro area high schools. Interested students must apply, and requires a commitment to a full-year curriculum. Encourages individual development as teachers, writers, and critical thinkers, and provides an opportunity to grow as colleagues and teammates. Requires extra time outside of class. Recommended prereq., LAWS 7055. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-8300 (3) Seminar: International Adjudication

Focuses on writing briefs and memoranda of law suitable for practice before tribunals such as the International Courts of Justice. Emphasis will be on students writing, legal analysis, and presentation of oral arguments. Instruction identifies how to research and analyze international materials, such as treaties, covenants, and international customary law.

Law School Law

LAWS-8301 (2) Seminar: Innovation, Network Theory, Social Entrepreneurship

Covers topics related to the legal and public policy implications of innovation, entrepreneurship, and social networks including normative ideals of entrepreneurship, the concept of regional advantage, whether startups should be subsidized and the design of such subsidies, the role of universities in commercializing ideas, impact of the tax code on entrepreneurship, the role of corporate responsibility in startups, and more.

Law School Law

LAWS-8302 (2) Seminar: Advanced Problems in Water Resources Law

Explores the use of watersheds as geographic and political entities for addressing water-related issues and how laws and institutions facilitate or impede watershed-based problem solving.

Law School Law

LAWS-8310 (2) Seminar: International Crimes Punishment

Addresses issues in international criminal law in three parts: 1) basic contents of international law, 2) international criminal tribunals that enforce international criminal law, and 3) national efforts to bring international criminal prosecutions. Recommended prereqs., LAWS 6400 and 7440. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-8311 (2) Seminar: Computer Crimes

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront with the recent explosion in computer related crime. Includes Fourth Amendment in cyberspace, law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal and state relations in enforcement of computer crime laws, and civil liberties online.

Law School Law Intell Prop, Tech, and Telecom

LAWS-8315 (2) Seminar: Advanced Criminal Justice

Studies policy and practice issues rather than case law. Focuses primarily on how American criminal justice is dispensed in cases that do not reach trial, including police behavior, prosecutorial discretion, defense services, bail, plea bargaining, and sentencing.

Law School Law

LAWS-8318 (2) Seminar: Law and Economics

Introduces the uses and limitations of microeconomic theory for understanding and resolving legal problems. Emphasizes concepts prominent in the law and economics literature such as cost, transaction costs, utility, and rational self interest.

Law School Law Jurisprudence and Perspective

LAWS-8320 (2) Seminar: Oil and International Relations

Addresses the extent to which the international community of nations is oil dependent. Assesses the impact and the geopolitical dangers to international relations arising from the expanding demand for scarce oil from developing, as well as developed, economies.

Law School Law International

LAWS-8321 (2) Seminar: Computers and Law

Explores a range of topics surrounding the juxtaposition of computers and law. Most are aware of the impact that law has on computers through the myriad of regulations that govern computers and related technologies. Less well known is the impact that computer technology is having on governance and on the practice of law. Explores both sides of this dynamic interplay between law impacting

computing, and computing impacting law.

[Law School](#) | [Law](#) | [Intell Prop, Tech, and Telecom](#)

LAWS-8325 (2) Seminar: Reforming Criminal Trials

Starts from the premise that reform of our criminal trial system to make it less complicated, less expensive, and more reliable should be considered. Examines trial systems in other countries and U.S. changes over recent decades. Student papers make and defend proposals for reform.

[Law School](#) | [Law](#)

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LAWS

[LAWS-8335 \(2\) Seminar: Advanced Criminal Procedure](#)

Focuses on a particular topic in criminal procedure. Topics include the privilege against self-incrimination, juries, and defense and prosecution ethics.

[Law School](#) [Law](#) [Litigation and Procedure](#)

[LAWS-8341 \(3\) Seminar: Law and Economics of the Information Age](#)

Examines basic regulatory and legal challenges of our information economy and digital age. Emphasizes the "Networked" information industries, the proper role of "Unbundling" policies to advance competition, and how intellectual property and antitrust rules should be developed. Prereq., LAWS 7201, 7241, or 7301. Same as TLEN 5260.

[Law School](#) [Law](#)

[LAWS-8351 \(2\) Seminar: Law and Economics of Utility Regulation](#)

Discusses economics of regulation and matters ranging from neoclassical economic analysis to public choice theory to new institutional economics. Discusses several regulatory domains, including antitrust law, telecommunications regulation, and energy regulation. Highlights both economic and non-economic goals, including universal service, sustainability (e.g., renewable energy), and architecture (e.g., free speech concerns with regard to telecommunications networks). Prereqs., LAWS 6301 or 7201 or 7241 or TLEN 5835. Restricted to Law and TLEN students.

[Law School](#) [Law](#) [Business](#)

LAWS-8355 (2) Seminar: Sentencing Law and Policy

Studies sentencing law against the backdrop of criminal justice policy and concerns of public policy. Covers theories of punishment, the merits of indeterminate sentencing, sentencing guidelines, and nonincarcerative sanctions. Confronts problems of race, class, and other disparities in criminal sentencing.

Law School Law

LAWS-8361 (2) Seminar: Information Privacy

Explores the laws that regulate the basic technologies of the Internet and the management of information in the digital age. It examines the most significant statutes, regulations, and common law principles that comprise this emerging legal framework, including the Federal Wiretap Act, the HIPAA Privacy Rule, and the Digital Millennium Copyright Act. Prerequisites: Restricted to Law students only.

Law School Law Intell Prop, Tech, and Telecom

LAWS-8375 (2) Seminar: Advanced Immigration and Citizenship

Explores the law and policy of citizenship in the United States, starting with legal questions regarding acquisition and loss of citizenship as well as the consequences of citizenship, but also examines the fundamental premises underlying American citizenship and the concept of citizenship generally.

Law School Law

LAWS-8395 (2) Seminar: Separation of Powers

Explores the constitutional relationships among the three branches of the federal government in the sphere of domestic matters, omitting foreign affairs and war. Develops topics including executive orders, Congressional control of the executive and the courts, appointment and removal of officers, impeachment, executive privilege, use of military tribunals, and the election of 2000. a seminar paper will be required.

Law School Law Government and Public

LAWS-8401 (2) Seminar: Securities Litigation and Enforcement

Designed for students interested in studying topics related to securities litigation. Covers civil liability under the Securities Act of 1933, proxy fraud, class actions (with special emphasis on the Private Securities Litigation Reform Act and the Securities Litigation Uniform Standards Act), market manipulation, SEC enforcement actions, enforcement issues involving attorneys and accountants, criminal enforcement, international securities fraud, and securities arbitration.

Law School Law Business

LAWS-8405 (2) Seminar: Public Health Law and Ethics

Explores rules of law pertaining to the American public health care system and the ethical issues raised by the government's effort to protect the health of the American people. To be held at Health Sciences Campus.

Law School Law Government and Public

LAWS-8407 (2) Seminar: Tax Policy

Explores current issues in tax policy. Topics may include the tax legislative process, consumption taxes, taxes and distributive justice, the tax exemption for nonprofits, carbon taxes, corporate taxes and integration, and taxes and entrepreneurship. Prereqs., Federal Income Tax and LAWS 6109. Prerequisites: Restricted to Law students only.

Law School Law Taxation

LAWS-8409 (2) Seminar Special Problems in Conflict Resolution and Management

Develops a comprehensive description of dispute; creates a conflict assessment of the stakeholders in and dynamics of dispute; assess obstacles to and opportunities for mediation; recommend strategy for addressing and managing the dispute. Prerequisites: Restricted to Law students only.

Law School Law Litigation and Procedure

LAWS-8415 (2) Seminar: Bioethics and Law

Focuses on legal, moral, and economic analyses of problems posed or soon to be posed by advances in biomedical technologies.

Law School Law Family, Gender, and Health

LAWS-8421 (2) Seminar: Duties of the Professional Advisor

Studies ethical and legal regulation of lawyers, auditors, and investment bankers, who have been described as "Gatekeepers" to the investment markets. Considers changes in ethical and legal regulation that can be adopted to restore a sense of integrity for these professionals.

Law School Law

LAWS-8425 (2) Seminar: Advanced Torts

Explores how dignitary interests have influenced the development of and have been incorporated into law, using the common law of torts and the constitutional rights of life and liberty as a general (but not exclusive) focal point of discussion.

Law School Law

LAWS-8428 (2) Seminar: Women in Law and Literature

Considers both legal and literary depictions of women and their legal and extralegal situations. Topics may include women as mothers, women as sexual beings, women's silence, women's violence and women as criminals, women at work, and women as the "Other" in law and literature.

Law School Law

LAWS-8430 (2) Seminar: Comparative Public Health Law and Ethics

Compares public health law systems to those in other countries. Studies the goals, legal structures, and services provided, together with such issues of coercion as quarantines, monitoring, mandates and prohibitions, and forcing pharmaceutical companies to make available inexpensive generic drugs.

Law School Law International

LAWS-8440 (2) Seminar: International Human Rights

Investigates the sources of international human rights law and issues of jurisdiction to prescribe, adjudicate, and enforce norms. Students study treaties and reservations, customary law, declarations, resolutions, and the U.S. courts' and activists' use of materials. Topics include sovereignty and self-determination, culture, privacy, right to equality, language and speech rights, right to development, immigration, workers and globalization, and citizenship.

Law School Law

LAWS-8450 (2) Seminar: Law and Economic Development

Explores past and present debates over the role of the legal order in economic development. Studies the relationships among economic ideas, legal ideas and the development policies pursued at the national and international level in successive historical periods, beginning in the Seventeenth Century to the present. Focuses on the potential for an alliance of various traditions from economics, law and other disciplines to understand development.

Law School Law

LAWS-8458 (2) Seminar: Law and Literature

Focuses on the question of what literature can teach lawyers through a variety of literary works and films. Covers traditional works by

Shakespeare, Tolstoy, Camus, Kafka, and Melville, as well as more contemporary works by Toni Morrison and Norman Mailer. Several short reflection papers, a journal, and a final paper will be required.

Law School Law Research and Writing

LAWS-8505 (2) Sem Interdisciplinary Perspectives on Law and Social Change

Introduces legal institutions engaged in social change, from courts, to Congress, to bureaucracies and organizations. Posits tension between tasks of dispute resolution and public policy development and institutional adaptations. Considers the role of public opinion and the classics of legal formalism to more critical accounts. Considers postmodern theory and empirical legal scholarship. Presents alternatives to court-centered approaches to change, including community lawyering and organizing, law and social movements, and legislation. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-8508 (2) Seminar: Constitutional Foundations Core Ideas

Focuses on core ideas in U.S. constitutional law, such as means/ends analysis, institutional competence, rights definitions, and juridical techniques for limiting governmental powers. Draws from historical writings, contemporary press accounts, learned treatises, oral arguments, law review articles, and key judicial opinions such as *McCullough v. Maryland*, *Lochner v. New York*, *Brown v. Board of Education*.

Law School Law Government and Public

LAWS-8511 (2) Seminar: Wal-Mart

Examines issues raised by Wal-Mart's size, power, and business model. Considered issues bring numerous areas of law into play, including employment and labor law, social welfare legislation, class actions, antitrust, zoning, international labor and human rights regulation, and international trade. The course will show how different areas of the law are integrated in practice.

Law School Law

LAWS-8515 (2) Seminar: Forced Labor

Reviews several regimes of compulsory labor that have been central to the American experience: Black chattel slavery in the antebellum South; debt peonage, criminal surety, and related institutions of agricultural involuntary servitude; convict leasing and other forms of compulsory inmate labor; "White slavery" and prostitution; and forced labor among immigrants. Emphasizes the complicated role that the law has played, and in some respects continues to play, in both supporting and undermining such institutions.

Law School Law Government and Public

LAWS-8521 (2) Seminar: Comparative Labor Law

Explores the laws and economic transformations that affect labor relations on a global scale.

[Law School](#) [Law](#) [Business](#)

LAWS-8531 (2) Seminar: Labor and Employment in Transportation

Explores legal, social, and economic issues arising from labor relations in the industries transporting goods and people by road, rail, air, and water, among the most critical sectors of the economy.

[Law School](#) [Law](#)

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LAWS

LAWS-8533 (2) Seminar: Criminal Law in Context: Legal and Social Images of Victims and Perpetrators

Contextualizes criminal law by engaging in an in depth study of the legal and social characterizations of victims and perpetrators in U.S. law, politics, and popular culture. Prerequisites: Restricted to Law students only.

[Law School](#) | [Law](#) | [Litigation and Procedure](#)

LAWS-8535 (2) Seminar: Class and Law

Explores issues relating social class to such areas as labor relations, law enforcement, controls on radical movements, and the distribution of wealth and power. Considers problems defining social class.

[Law School](#) | [Law](#) | [Government and Public](#)

LAWS-8538 (2) Seminar: Modern Legal Theory Core Ideas

Explores key ideas that have shaped American law and legal thought, such as Holmes' bad man, the Coase Theorem, the "Hunch" theory of law, and others. Focuses on researching and writing many short papers.

[Law School](#) | [Law](#) | [Jurisprudence and Perspective](#)

LAWS-8545 (2) Seminar: Food Law and Policy

Introduces students to the laws and regulations that govern our food supply. The focus is federal law provided by the U.S. Food and Drug Administration, with additional readings, videos and speakers. Topics to be covered include legal definitions for food, rules on food

labeling, standards for food safety, biotechnology, international trade, organic and environmental regulation, hunger, farmer's markets and obesity. Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-8548 (2) Seminar: Theory of Punishment

Explores the various justifications that philosophers have developed to explain why we have the right to punish. Examines the historical evolution of our punishment system and focuses on the death penalty as a critical contemporary issue in the debate about the proper role of punishment in our society.

Law School Law Jurisprudence and Perspective

LAWS-8555 (2) Seminar: Race, Education and American Law

Explores issues of equity, access, and reform in American public education, particularly as it pertains to race, including desegregation, diversity, equal protection and public education, tracking and high-stakes testing, courts or the political branches, charters and vouchers. Restricted to Law students only. Recommended prereq., LAWS 7525. Prerequisites: Restricted to Law students only.

Law School Law Government and Public

LAWS-8608 (2) Seminar: Power, Ethics, and Professionalism

Examines critically the possibility and character of ethical reasoning within the legal profession in light of its institutional structures. Explores descriptive/normative accounts of the profession's structure, "Professionalism," and individual conscience. Put simply, the seminar explores whether it is possible to be a good lawyer and ethical person.

Law School Law Jurisprudence and Perspective

LAWS-8613 (2) Seminar: Civil Liberties Litigation

Studies issues unique to the prosecution and defense of civil liberties lawsuits. Discusses litigation strategies with reference to lawsuits currently pending in the federal courts.

Law School Law

LAWS-8628 (2) Seminar: Law, Power, and Politics

Draws upon various works of political theory, social theory, and jurisprudence to examine different conceptualizations of politics, power, law, and their relations.

LAWS-8648 (2) Seminar: The Law of Politics

Examines the legal framework that governs the political process, including such topics as the political question doctrine, the "Right to vote," the 2000 presidential election controversy, term limits, bicameralism and presentment, campaign finance, direct democracy, and the interpretation of the legislative product (i.e., statutes).

LAWS-8701 (2) Seminar: Counseling Families in Business

Explores the legal aspects of owning, managing, and participating in a successful family business system, including corporate structure, legal issues, succession planning and estate management, internal capital markets in private enterprise, ownership issues in private businesses, how lawyers can assist with family governance, planning for and managing family philanthropy, gender issues in family business, and conflict resolution. Recommended prereqs., LAWS 6104, 6157, 6211, and/or 7409.

LAWS-8705 (2) Seminar: Affordable Housing

Explores the policy, legal, and practical dynamics that drive the development and preservation of privately owned, government subsidized affordable housing. Investigates the nature of the market for housing, with particular emphasis on multifamily rental housing, and debates about market failure in that context and then outline and contrast the major regulatory responses to such market failure. Explores how subsidy programs work in practice, focusing on model documents to frame sample transactions.

LAWS-8718 (2) Seminar: Modern Theorists and Law

Considers the work of Levi-Strauss, Steven Lukes, Pierre Bourdieu, Alfred Schutz, Anthony Giddens, Culler, David Harvey, Denis Cosgrove, Michel Foucault, and Emily Martin with respect to social control and law. Focuses on the way in which social control is exercised through the organization of space, time, and the human body. Topics include consideration of meaning, intersubjectivity in the law, social construction of time, and the body as a real and cultural artifact.

LAWS-8725 (2) Seminar: Advanced Topics in American Indian Law

Examines a variety of current issues related to American Indian Law. The topics will change to reflect the subjects that emerge at each time that the seminar is offered. Some examples of topics considered in this seminar include legal protections for American Indian religion

and culture, cultural property, Tribal law, gaming law, and Native American natural and cultural resources law. Coreq., LAWS 7725.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-8728 (2) Seminar: Critical Theory Colloquium

Surveys critical legal theory; introduces the discipline of analytical engagement with law review literature; feminist legal theory, and critical race theory. Offers a deeper understanding of the purposes behind legal reforms, the interaction between law on the books and law in action, how different groups experience the law in different ways, and difficult yet rewarding nature of working through seemingly intractable and emotionally charged race, sex, and class issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Jurisprudence and Perspective

LAWS-8755 (2) Seminar: Higher Education and the Law

Examines the goals, governance, norms, and ideals of American institutions of higher education, and how those policies are shaped by the legal system. Examines the legal relationship between institutions of higher education and its various constituents: faculty, presidents, governing boards, students, alumni, and staff. Spans several traditional doctrinal categories, including contract, torts, employment law, constitutional law, intellectual property, tax, and antitrust.

Law School Law Government and Public

LAWS-8765 (2) Seminar: Gender, Law, and Public Policy

Examines the relationship of law and gender in criminal law, and constitutional law, using feminist theoretical perspectives as the organizing principle. Each perspective is applied to cases and material on such topics as violence against women, prostitution, pornography, and discrimination in education and athletics. Prerequisites: Restricted to Law students only.

Law School Law Family, Gender, and Health

LAWS-8775 (2) Seminar: Advanced Topics in Health Law and Policy

Addresses advanced legal issues in representing physicians, long-term care institutions, hospitals, and other health providers. Issues range from economic policy, distributive justice, and bioethical questions to antitrust and regulatory issues. Recommended prereq., LAWS 7425. To be taught at Health Sciences Center.

Law School Law

LAWS-9002 (3) Public Land Law

Deals with the legal status and management of resources on federal lands, including national forests, parks, and BLM lands. Explores

federal law, policy, and agency practice affecting the use of mineral, timber, range, water, wildlife, and wilderness resources on public lands. Restricted to Law students only. Prereq., LAWS 6112. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-9061 (1) Contract Drafting

Begins with value creation by transactional lawyers, and emphasizes the opportunity for lawyers to reduce information and agency costs, and mitigate strategic behavior by using tools such as disclosure, representation and warranties, incentive compensation and earnouts. Shifts to negotiation and drafting, focusing on basic drafting principles and strategies to advance one's clients' interests. Introduces the basic framework of contracts (recitals, reps and warranties, capitalized terms, definitions, indemnifications and escrow). Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9101 (4) Deals: Engineering Financial Transactions

Explores the business lawyer's role in creating value by helping clients identify, assess, and manage business risks through efficient contract design while achieving the optimal legal, tax or regulatory treatment for the deal. Includes case studies of actual transactions. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9104 (3) Wills and Trusts

Covers intestate succession; family protection; execution of wills; revocation and revival; will contracts and will substitutes; creation of trusts; modification and termination; charitable trusts; fiduciary administration, including probate and contest of wills; construction problems in estate distribution. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Property

LAWS-9111 (4) Business Law Colloquium

Business law scholars from CU and around the country present research papers at this weekly colloquium. Topics may include contracts, corporate law, securities regulation, tax, intellectual property, venture capital and private equity, and the legal profession. No prior knowledge of law and economics is expected, although some knowledge of business organizations will be useful. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9112 (2-3) Advanced Natural Resources Law

Provides in-depth study and analysis of current problems in natural resources law, using historical, literary, and scientific materials. Includes field-trip and requires additional field trip expenses. May be repeated up to 5 total credit hours. Restricted to Law students only. Recommended prereq., LAWS 6112 or students must have taken or be currently enrolled in any three of the following: LAWS 6002, 6112,

6302 or 7725. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Envir, Nat Resources, Amer Ind](#)

LAWS-9167 (3) Partnership Taxation

Studies federal income taxation of pass-through entities such as are used by most small businesses in the U.S. Includes creation, operation, distributions, sales of interests, and liquidation. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Taxation](#)

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LAWS

LAWS-9209 (4) Natural Resources Law Clinic

Engages in litigation and advocacy aimed at protecting the natural resources of the Rocky Mountain region. Students will represent clients in matters involving public lands, wildlife, and other resources. The seminar component will focus on practical aspects of environmental litigation, including administrative practice and decision-making, client representation, citizen suits, and ethical issues. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Practice:Clinical & Simulation](#)

LAWS-9341 (3) Law and Economics of the Information Age

Examines basic regulatory and legal challenges of our information economy and digital age. Emphasizes the "Networked" information industries, the proper role of "Unbundling" policies to advance competition, and how intellectual property and antitrust rules should be developed. Restricted to Law students only. Prereq., LAWS 7201, 7241 or 7301. Same as TLEN 5620. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Business](#)

LAWS-9401 (3) Securities Regulation

Stresses statutory interpretation of the various federal statutes regulating the issue of corporate securities and the cases and regulations that have arisen out of those statutes. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Business](#)

LAWS-9409 (3) Legal Negotiation

Explores the fundamentals of effective negotiation techniques and policies for lawyers. Students engage in mock negotiations of several

legal disputes. Restricted to Law students only. Credit is not given for LAWS 741 and this course. Prerequisites: Restricted to Law students only.

Law School Law Practice: Clinical & Simulation

LAWS-9410 (3) International Trade Law

Examines the law of the World Trade Organization and the General Agreement on Tariffs and Trade. Examines rules restraining national restrictions on trade that addresses tariff and non-tariff barriers, discrimination, regionalism, anti-dumping, countervailing duties, and safeguards. Considers the relationship between trade and other regulatory areas or social values, such as environmental protection, health and safety standards, human rights, intellectual property protection. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law International

LAWS-9701 (2) Counseling Families in Business

Explores the legal aspects of owning, managing, and participating in a successful family business system, including corporate structure, legal issues, succession planning and estate management, internal capital markets in private enterprise, ownership issues in private businesses, how lawyers can assist with family governance, planning for and managing family philanthropy, gender issues in family business, and conflict resolution. Restricted to Law students only. Recommended prereqs., LAWS 6104, 6157, 6211, and/or 7409 Prerequisites: Restricted to Law students only.

Law School Law Business

LAWS-9712 (3) Climate Change Law and Policy

Examines the science of climate change and the broader role of science in public policymaking. Reviews the changing legal landscape to abate greenhouse gas emissions, and key issues in policy design. Reviews the Supreme Court's April 2, 2007 decision in Massachusetts v. EPA, overturning EPA's refusal to regulate greenhouse gas pollution from motor vehicle tailpipes, and the aftermath in the courts, Executive Branch and Congress. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-9722 (3) Energy Law and Regulation

Provides an introduction to energy law and regulation in the United States. Covers basic principles of rate regulation and public utilities, the division of jurisdiction between federal and state governments, and the key federal statutes and regulatory regimes governing natural gas, electricity, and nuclear power. Focuses on the basic federal frameworks for natural gas and electricity regulation, with an emphasis on understanding the messy and uneven transition to wholesale competition in these sectors and, in the electricity context, the experience with state restructuring and retail completion. Restricted to Law students only. Prerequisites: Restricted to Law students only.

Law School Law Envir, Nat Resources, Amer Ind

LAWS-9735 (3) American Indian Law II

Investigates the legal history and current legal status of Alaska Natives and Native Hawaiians. Addresses other current topics such as tribal water rights, tribal fishing and hunting rights, tribal justice systems, religious freedom, and tribal natural resource and environmental management. Restricted to Law students only. Prereq., LAWS 7725. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Envir, Nat Resources, Amer Ind](#)

LAWS-9846 (1-2) LLM Seminar

LLM students study academic legal writing in this 1-credit per semester yearlong course. Topics covered will include: the purpose of academic legal writing; how academic legal writing differs from other forms of legal writing; topic selection; legal research (methods and ethics); first drafts; editing; academic workshops; and publishing. In addition, guest speakers will talk to LLM students about career planning and job seeking. International LLM students will learn about the American legal system. Restricted to Law students only. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Research and Writing](#)

LAWS-9856 (1-4) LL.M Thesis

LL.M students are required to write a thesis in order to graduate. Requires significant work of original research on a topic chosen in close consultation with advisors and other law school faculty, and assignments include due dates for topic selection, drafts, and workshop delivery. Thesis is worth two credits. In exceptional circumstances and only after pre-approval, an LL.M student may enroll for a third or fourth credit. Prerequisites: Restricted to Law students only.

[Law School](#) [Law](#) [Research and Writing](#)

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LDSP

LDSP-1000 (3) The Foundations of 21st Century Leadership

Introduces students to the critical need for and approaches to the practice of creative and effective leadership. Premised on the idea that the potential for leadership is present in all of us. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Chancellor Leaderships Residential Academic Program](#)

LDSP-1561 (1) Compassionate Leadership and Mindfulness

Explores various practices and traditions that lead to a balanced, physical, mental, emotional, and spiritual life critical to the practice of effective leadership. May be repeated up to 3 total credit hours.

[College of Arts & Sciences](#) [Chancellor Leaderships Residential Academic Program](#)

LDSP-1571 (1) Topics in Leadership

Examines the complex nature of leadership by applying knowledge and practice to contemporary and social issues. May be repeated up to 3 total credit hours.

[College of Arts & Sciences](#) [Chancellor Leaderships Residential Academic Program](#)

LDSP-2820 (3) Multilevel Issue in Leadership

Studies multilevel issues that originate in organizational settings but carry community and global implications. Encourages students to fully explore the complexity and interrelatedness of issues with a special emphasis on leadership and ethical implications. Same as PRLC

2820.

College of Arts & Sciences Chancellor Leadership Residential Academic Program

LDSP-2910 (1-3) Field Practicum 1

Offers supervised campus and off-campus experiences tied to course work in the Leadership RAP or the INVST program. See also LDSP 2920. May be repeated up to 6 total credit hours. Same as EDUC 2910.

College of Arts & Sciences Chancellor Leadership Residential Academic Program

LDSP-2920 (1-3) Field Practicum 2

Offers supervised campus and off-campus experiences tied to course work in the Leadership RAP or the INVST program. See also LDSP 2910. May be repeated up to 6 total credit hours. Same as EDUC 2920.

College of Arts & Sciences Chancellor Leadership Residential Academic Program

LDSP-3100 (3-4) Multicultural Leadership: Theories, Principles and Practices

Focuses on leadership theories and skills necessary for effectiveness in multicultural settings. Students gain understanding of traditional and culturally diverse approaches to leadership and change through comparative analyses of western and non-western theories and practices. Same as ETHN 3201 and INVS 3100. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Chancellor Leadership Residential Academic Program

LDSP-4010 (4) Critical Issues in Leadership: A Capstone Course

Critical thinking is fundamental to leadership competency. Leaders must have skill at making judgments and collecting information from a variety of sources and on topics in which they have limited expertise. Students read, discuss, and write critical evaluations of contemporary leadership theory from an ethical, military, community building, and business perspective. Prereq., a minimum of 10 credit hours towards the Leadership Certificate completed.

College of Arts & Sciences Chancellor Leadership Residential Academic Program

LDSP-4932 (1-6) Community Leadership in Action, Part 2

Develops students' expertise as community leaders working for a just and sustainable world. Under the supervision of an instructor and a community advisor, students learn organizational and leadership skills by designing, implementing and evaluating a community-based

project. First-hand experience provides students with a deepened understanding of the complex issues facing humanity, and competence with solution-based strategies. May be repeated up to 6 total credit hours. INVS 4932 and LDSP 4932 are the same course.

[College of Arts & Sciences](#) | [Chancellor Leaderships Residential Academic Program](#)

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LGBT

LGBT-2000 (3) Introduction to Lesbian, Gay, Bisexual, and Transgender Studies

Investigates the social and historical meanings of racial, gender, and sexual identities and their relationship to contemporary lesbian, bisexual, gay, and transgender communities. Same as WMST 2030. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Lesbian, Gay, Bisexual, Transgender Studies](#)

LGBT-2707 (3) Introduction to Lesbian, Bisexual, and Gay Literature

Offers students at sophomore and junior levels an introduction to some of the forms, concerns, and genres of contemporary lesbian, bisexual, transgender, and gay writing in English. Prereq., sophomore standing. Same as ENGL 2707.

[College of Arts & Sciences](#) [Lesbian, Gay, Bisexual, Transgender Studies](#)

LGBT-3796 (3) Queer Theory

Surveys theoretical, critical, and historical writings in the context of lesbian, bisexual, transgender, and gay literature. Examines relationships among aesthetic, cultural, and political agendas, and literary and visual texts of the 20th century. Same as ENGL 3796. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

[College of Arts & Sciences](#) [Lesbian, Gay, Bisexual, Transgender Studies](#)

LGBT-3930 (3) Lesbian, Gay, Bisexual, Transgender, and Queer Studies Internship

Matches selected students with supervised internships in university programs and advocacy groups, local businesses, human service or government agencies. Internships will focus on lesbian, gay, bisexual, transgender or queer issues, such as anti-violence programs, educational outreach, and civil rights initiatives. Recommended prereq., LGBT 2000.

College of Arts & Sciences [Lesbian, Gay, Bisexual, Transgender Studies](#)

LGBT-4287 (3) Studies in Lesbian, Gay, Bisexual, and Transgender Literature

Examines selected British, American, and French literary representations of lesbian and gay identity from the early 16th century to the present. Discusses the changing status of alternate sexuality as a literary and cultural topos, including how same-sex desire is defined, and the rhetorical and ideological difficulties involved in its representation. Specific topics vary each semester. May be repeated up to 9 total credit hours. Same as ENGL/WMST 4287. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences [Lesbian, Gay, Bisexual, Transgender Studies](#)

LGBT-4840 (3) Independent Study in LGBTQ Studies

Self-directed research project in LGBTQ studies supervised by a faculty member and approved by one of the Co-Directors of the LGBT Studies Certificate Program.

College of Arts & Sciences [Lesbian, Gay, Bisexual, Transgender Studies](#)



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LIBB

LIBB-1500 (3) The Dialogue of Art and Religion

Focuses on interdisciplinary study of visual art from diverse cultural traditions. Addresses role and training of the artist; aesthetic issues related to the object; the audience or viewer for which the work is intended; and the context of the work, especially religious and social history. Cultural traditions include Russian Orthodox icons, Himalayan Buddhist thangkas, and Navaho sandpaintings. (In different semesters, the content may shift to include other traditions such as Islamic or Celtic manuscripts, or Haida totem poles.) Approved for arts and sciences core curriculum: ideals and values. Restricted to Libby RAP students. Prerequisites: Restricted to Libby Residential Academic Program students only.

[College of Arts & Sciences](#) [Libby Residential Academic Program](#)

LIBB-1600 (3) Gender and Film

Explores a wide variety of cinematic forms and styles and discusses the treatment of femininity, masculinity, sexuality, and how gender is represented as an artifact of mass culture. Although the course title privileges issues of gender, the course also includes the study of issues of race and ethnicity in film and the inherent connections between the cinematic representations of race and gender. Approved for GT-AH1. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to Libby Residential Academic Program students only.

[College of Arts & Sciences](#) [Libby Residential Academic Program](#)

LIBB-1700 (3) The History of Communication from Caves to Cyberspace

Surveys the history, evolution, and nature of communication and communication technologies. Students learn about the ongoing media revolution and its broader context, considering the interdependence of communication, culture, and society. They critically examine utopian, deterministic, and pessimistic arguments about the influence of new technologies and arts. Course combines lecture, discussion, and group work in a seminar format. Approved for arts and sciences core curriculum: historical context. Restricted to Libby RAP students. Prerequisites: Restricted to Libby Residential Academic Program students only.

[College of Arts & Sciences](#) [Libby Residential Academic Program](#)

LIBB-2013 (3) Film and the Quest for Truth

Concerns the subjectivity and relativity of truth. Focuses on how and why we pursue (or fail to pursue) the truths about ourselves and about the people and events around us, and how and why such truths are often elusive, fragmentary, and impermanent. Formerly FILM 2013. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to Libby Residential Academic Program students only.

[College of Arts & Sciences](#) [Libby Residential Academic Program](#)

LIBB-2500 (1-3) Special Topics in Libby Residential Academic Program

Introduces timely studio subjects in the visual and performing arts that cannot be offered on a regular basis. Information concerning the studio topics offered in any given semester is available prior to registration from the Libby RAP. May be repeated up to 7 total credit hours. Restricted to Libby RAP students. Prerequisites: Restricted to Libby Residential Academic Program students only.

[College of Arts & Sciences](#) [Libby Residential Academic Program](#)

LIBB-2510 (1-3) Special Topics in Libby Residential Academic Program

Introduces timely subjects in the visual and performing arts that cannot be offered on a regular basis. Information concerning the seminar topics offered in any given semester is available prior to registration from the Libby RAP. May be repeated up to 7 total credit hours. Restricted to Libby RAP students. Prerequisites: Restricted to Libby Residential Academic Program students only.

[College of Arts & Sciences](#) [Libby Residential Academic Program](#)

LIBB-2800 (3) Horror Films and American Culture

Examines American horror films in an historical context through which students learn to recognize how horror films represent our culture's "collective fears" and provides an analysis of the horror film genre. Considers the cultural contexts in which horror films are made through study of the creation and reception of these films during specific times in American history. Prereq., FILM 1502. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to Libby Residential Academic Program students only.

[College of Arts & Sciences](#) [Libby Residential Academic Program](#)



Courses

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All

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LIBR

[LIBR-2000 \(3\) Research Strategies on the Electronic Campus](#)

Critical examination and practical exploration of computer technologies, digital communication, and electronic information systems and services for new students. Restricted to freshmen and sophomores only.

[College of Arts & Sciences](#) [Libraries](#)

[LIBR-3010 \(3\) Methods of Electronic Library Research](#)

Exploration of the structure, organization, retrieval, and evaluation of electronic information sources through the formulation of search strategies useful for undergraduate research.

[College of Arts & Sciences](#) [Libraries](#)

[LIBR-3900 \(1-3\) Independent Library Research](#)

In-depth library research project for upper-division students. Prereq., instructor consent.

[College of Arts & Sciences](#) [Libraries](#)

[LIBR-4900 \(1-3\) Independent Library Research](#)

In-depth library research project for upper-division students. Prereq., instructor consent.



Courses

Search by College, Department & Category

College/School

All

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Subject Number

LING

LING-1000 (3) Language in U.S. Society

Nontechnical exploration of the ways that language is used in America. Emphasizes language as a social institution and how values and goals of both public institutions and private groups shape and are shaped by language and its use. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: United States context or contemporary societies.

[College of Arts & Sciences](#) [Linguistics](#)

LING-1010 (3) The Study of Words

Study of English words of Latin and Greek origin, focusing on etymological meaning by analysis of component parts (prefixes, bases, suffixes) and on the ways in which words have changed and developed semantically. Same as CLAS 1010.

[College of Arts & Sciences](#) [Linguistics](#)

LING-1020 (3) Languages of the World

Explores the issue of human diversity by examining how languages vary around the world. Outlines historical, geographic, and typological classifications of languages across human societies, and the criteria used by linguists for grouping them into language families. Theorizes the relationship between linguistic and cognitive diversity, and considers the impact of language death on humanity. No formal training in linguistics is required. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Linguistics](#)

LING-1500 (3) Understanding Grammar

Presents fundamentals of grammar in the Western tradition. Emphasizes making concepts and uses of grammar (as exemplified in English and closely related foreign languages) understandable to the nonspecialist.

College of Arts & Sciences Linguistics

LING-1900 (1) Service Learning Practicum: Adult Literacy

Practicum for selected students in LING 1000. Provides practical experience of the impact of illiteracy on individuals, families, and the community at large. Coregistration in service learning recitation is required. Coreq., LING 1000.

College of Arts & Sciences Linguistics

LING-2000 (3) Introduction to Linguistics

Introduces the study of languages as structural systems. Principles of sound patterns, word formation, meaning, and sentence structure. Gives attention to language acquisition, psycholinguistics, language families, dialects, historical change in languages, and different language types. Meets MAPS requirement for social science: general.

College of Arts & Sciences Linguistics

LING-2400 (3) Language and Gender

Familiarizes students with the effects of gender on language use; discusses popular beliefs and scholarly theories about language and communication. Provides students with tools for exploring the role of language and gender. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Linguistics

LING-3005 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problem, nature versus nurture, conceptual structure and metaphor, logic/problem solving and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as PSYC 3005, PHIL 3310, and CSCI 3702.

College of Arts & Sciences Linguistics

LING-3100 (3) Language Sound Structures

Introduces the sounds of languages and their organization into phonological structures. Prereq., LING 2000 or equivalent.

College of Arts & Sciences Linguistics

LING-3220 (3) American Indian Languages in their Social and Cultural Context

A sampling of the many languages and cultures found in America before Columbus. Emphasizes those living in what eventually became the United States, but also gives attention to the languages and higher civilizations of Latin America. Prereq., junior standing. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Linguistics

LING-3430 (3) Semantics

Theoretical and practical study of meaning in natural language. Considers both semantic theories and semantic phenomena from diverse languages. Does not treat techniques for improving the use of language. Prereq., LING 2000 or equivalent. Prerequisites: Restricted to junior or senior Linguistics (LING) majors only.

College of Arts & Sciences Linguistics

LING-3545 (3) World Language Policies

Examines the economic and sociopolitical impact of choosing English vs. other languages in the U.S. Introduces the study of language policies, rights, and planning in other countries, including the worldwide use of English in social, business, and legal contexts.

College of Arts & Sciences Linguistics

LING-3800 (1-4) Special Topics in Linguistics

Intensive study of a selected area or problem in linguistics. May be repeated up to 9 total credit hours.

College of Arts & Sciences Linguistics

LING-4100 (3) Perspectives on Language

Provides extended critical examination of a few selected issues, chosen each term for their general interest and relevance, e.g., the relation between language and thought, or human language vs. animal languages, and computer languages. Prereqs., LING 2000 or equivalent, and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

LING-4220 (3) Language and Mind

Studies processes of perceiving speech, interpreting it as meaningful, and expressing intentions to communicate as utterances. Emphasizes roles of the brain and of perceptual and motor systems. Writing, gestural, and animal communicative systems also are treated. Prereqs., PSYC 1001 and LING 2000. Same as PSYC 4220.

LING-4420 (3) Morphology and Syntax

Introduces principles of word formation and sentence structure. Covers major morphological and syntactic structures found in the world's languages, and methods for describing grammatical structures, and includes practice in analyzing data from a variety of languages. Prereq., Ling 2000 or equivalent. Same as Ling 5420.

LING-4450 (3) Introduction to Formal Syntax

Introduces formal generative grammar, including determining constituent structure, drawing trees, writing rules, understanding the properties of the lexicon and their interaction with syntax, X-bar theory and its modifications, and movement analysis. Prereq., LING 4420 on instructor consent.

LING-4560 (3) Language Development

Emphasizes acquisition of language by young children; development in later years and into adulthood is also treated. Particular attention given to roles of environment and of neurophysiological endowment in learning to communicate with words, sentences, and narratives. Restricted to Linguistics majors only. Prereqs., LING 2000 and PSYC 1001. Same as SLHS 4560 and PSYC 4560. Prerequisites: Restricted to Linguistics Majors only.

LING-4610 (3) English Structure for Teachers of English to Speakers of Other Languages

Description of morphological and syntactic categories and structures of English. Prereq., LING 2000. Same as LING 5610.



College of Arts & Sciences Linguistics

LING-4800 (3) Language and Culture

Principles of language structure and how language and culture interrelate; how language and language use are affected by culture; and how culture may be affected by use of, or contact with, particular languages. Prereq., junior standing. Same as ANTH 4800.

College of Arts & Sciences Linguistics

LING-4830 (3) Honors Thesis

Required for students who elect departmental honors. Students write an honors thesis based on independent research under the direction of a faculty member. May be repeated up to 7 total credit hours.

College of Arts & Sciences Linguistics

LING-4900 (1-3) Independent Study

May be repeated up to 8 total credit hours.

College of Arts & Sciences Linguistics

LING-5030 (3) Linguistic Phonetics

Introduces practical and theoretical aspects of phonetics. Provides training in recognition and production of speech sounds, and instruction on fundamentals of articulatory, acoustic, and auditory phonetics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-5200 (3) Introduction to Computational Corpus Linguistics

Covers computer methods for doing linguistics with on-line corpora. Includes extensive introduction (with lab) to the Python programming language, UNIX corpus tools, concordance programs, syntactic treebanks, propanks, and corpora for discourse and phonology research. Restricted to graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-5300 (3) Research in Psycholinguistics

After a general introduction to issues and research methods in psycholinguistics (language production and comprehension, language and

cognition, language acquisition), several major current research topics, such as models of speech production, and theories of brain specialization for language, are explored. Prereq., at least one graduate-level course in linguistics, psychology, or computer science. Same as PSYC 5300.

[College of Arts & Sciences](#) [Linguistics](#)

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Courses

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All

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LING

LING-5410 (3) Phonology

Studies sound systems of language. Introduces both principles of organization of sound systems and major kinds of phonological structures found worldwide. Provides extensive practice in applying phonological principles to data analysis. Prereq., LING 5030 or instructor consent.

College of Arts & Sciences Linguistics

LING-5420 (3) Morphology and Syntax

Introduces principles of word formation and sentence structure. Covers major morphological and syntactic structures found in the world's languages, and methods for describing grammatical structures, and includes practice in analyzing data from a variety of languages. Same as LING 4420. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-5430 (3) Semantics and Pragmatics

Explores fundamental concepts of semantics and pragmatics, including theories of communication and meaning, representation, conversational implications, speech acts, and discourse structure. Prereq., LING 5420 or instructor consent.

College of Arts & Sciences Linguistics

LING-5570 (3) Introduction to Diachronic Linguistics

Familiarizes students with terminology, methods, and theories dealing with phenomena of language change through time. Prereq., LING

5410 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-5610 (3) English Structure for Teachers of English to Speakers of Other Languages

Description of morphological and syntactic categories and structures of English. Prereq., graduate standing. Same as LING 4610.

College of Arts & Sciences Linguistics

LING-5620 (3) Teaching ESL Pronunciation

Examines the phonetics and phonology of American English (including prosody) and explores techniques for teaching pronunciation skills to non-native speakers. Treats both general issues and specific problems for students from particular language backgrounds. Prereq., LING 3100 or LING 5030 and 5410. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-5630 (3) Methods and Materials for Teaching English as an Additional Language

Provides an overview of methods and materials for teaching English as an additional language, along with opportunities for students to observe, discuss and analyze these in relation to language teaching principles, linguistic considerations, and global and local contexts. Aimed primarily at the teaching of English to nonnative speaking adults, the course also addresses second and foreign language teaching generally. Recommended prereqs., LING 5610 or 5620. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-5832 (3) Natural Language Processing

Explores the field of natural language processing as it is concerned with the theoretical and practical issues that arise in getting computers to perform useful and interesting tasks with natural language. Covers the problems of understanding complex language phenomena and building practical programs. Prereq., graduate standing or instructor consent. Same as CSCI 5832.

College of Arts & Sciences Linguistics

LING-5900 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Linguistics

LING-5910 (1-3) TESOL Practicum

Provides observation and supervised teaching experiences in classroom and other contexts involving the teaching of English to speakers of other languages, especially adults and young adult learners in settings outside K-12. Meetings provide opportunities to debrief and to consult on teaching practice; help students connect theory, methods and practice; and support a professional teaching portfolio process. May be repeated up to 6 total credit hours. Prereq., LING 4610/5610 or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-6200 (3) Issues and Methods in Cognitive Science

Interdisciplinary introduction to cognitive science, examining ideas from cognitive psychology, philosophy, education, and linguistics via computational modeling and psychological experimentation. Includes philosophy of mind; learning; categorization; vision and mental imagery; consciousness; problem solving; decision making, and game-theory; language processing; connectionism. Prereqs., graduate standing, or at least one course at the 3000-level or higher in computer science, linguistics, philosophy, or psychology. No background in computer science will be presumed Same as CSCI 6402, EDUC 6504, PHIL 6310, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-6300 (3) Topics in Language Use

Discusses current issues and research in a selected area related to language use and function. Sample topics include conversational interaction, language policy, language content, and sociolinguistic variation. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-6310 (3) Sociolinguistic Analysis

Serves as an advanced introduction to the empirical and theoretical foundations of contemporary sociolinguistic analysis, with special emphasis on linguistic variation, diversity and change. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-6320 (3) Linguistic Anthropology

Serves as an advanced introduction to the empirical and theoretical foundations of contemporary linguistic anthropology, with special emphasis on the ways in which culture and society emerge semiotically through language and discourse. Same as ANTH 6320. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-6450 (3) Syntactic Analysis

Introduces the major constructs used by formal theories of syntax to capture the relationship between meaning and syntactic form and uses data from diverse languages to explore the universality of these constructs. Restricted to graduate students.

College of Arts & Sciences Linguistics

LING-6510 (3) Language Structures

Surveys the structure of one or more languages, emphasizing understanding how parts of the language interact. Designed to supplement courses in which parts of languages are used to illustrate theoretical claims. Prereqs., LING 5410 and 5420. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-6520 (3) Topics in Comparative Linguistics

Students compare and contrast selected structures of languages treated from a typological, genetic, or a real perspective. No special prior knowledge of the subject language is required. Prereqs., LING 5410, 5420, and 5570, or equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-6560 (3) Language Acquisition

Theories and research methods in first-language acquisition of phonology, morphology, syntax, semantics, and pragmatics. Prereqs., LING 5410, 5420, and 5430, or instructor consent.

College of Arts & Sciences Linguistics

LING-6940 (1) Master's Degree Candidate

College of Arts & Sciences Linguistics

LING-6950 (1-6) Master's Thesis

College of Arts & Sciences Linguistics

LING-7000 (3) Methods of Typological Research 1

Research practicum that provides experience in discovering generalizations about language from observations over a sample of individual languages. Students practice the steps in such research from formulation of research questions to preliminary sketch of results under close faculty supervision. Prereqs., LING 5410, 5420, and 5570; or equivalent.

College of Arts & Sciences Linguistics

LING-7030 (3) Phonetic Theory and Analysis

Provides students with the practical skills and the conceptual framework to do independent research in phonetics (or in other areas relying on phonetic data). Introduces current and traditional issues in phonetic research (both experimental and theoretical) and gives training in analytical methods. Prereqs., LING 5030 and 5410 or equivalent.

College of Arts & Sciences Linguistics

LING-7100 (3) Field Methods 1

Introduces the process of discovering structure of a language from data obtained directly from its speakers. Emphasizes effectiveness in the field context, rapid recognition of structural features, and preliminary formulation using computational tools. Prereqs., LING 5410 and 5420, or equivalent.

College of Arts & Sciences Linguistics

LING-7320 (3) Narrative and Identity

Examines the ways in which identities are constructed, contested, and negotiated through narrative practice.

College of Arts & Sciences Linguistics

LING-7350 (3) Language and Gender in Cultural Perspective

Examines organizations of language and gender in a variety of societies and cultures from the perspectives of sociolinguistics, linguistic anthropology, and socially-oriented discourse analysis.

College of Arts & Sciences Linguistics



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LING

LING-7360 (3) Language and Sexuality

Explores the role of language in the social construction and articulation of sexuality.

[College of Arts & Sciences](#) [Linguistics](#)

LING-7410 (3) Phonological Theory

Phonetic and morphophonological representations: distinctive features, segments, prosodic structures, morphological structures. Phonological processes and their interaction. Naturalness conditions. Prereq., LING 5410 or equivalent. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Linguistics](#)

LING-7415 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Phd in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as PSYC 7415, CSCI 7412, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Linguistics](#)

LING-7420 (3) Syntactic Theory

Covers various topics in syntactic theory. May be repeated up to 9 total credit hours with instructor consent. Prereq., LING 5420 or

equivalent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-7425 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint Phd in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSCY 7415 or CSCI 7412 or EDUC 6506. Same as PSYC 7425, CSCI 7422, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-7430 (3) Semantic Theory

Current developments in the theory of linguistic semantics. Topics include truth-conditional theories, generative linguistic theories, semantic theories of communicative competence, and integration of these theories in development of a combined theory of semantics and pragmatics. Prereq., LING 5430 or instructor consent.

College of Arts & Sciences Linguistics

LING-7570 (3) Advanced Diachronic Linguistics

Presents theories of language change. Discusses mechanisms of language change, its trajectories over linguistic categories and items, and its relation to theories of grammar and of language variation. Prereqs., LING 5410, 5420, and 5570, or equivalent. .

College of Arts & Sciences Linguistics

LING-7762 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Prereq., graduate standing. Same as CSCI 7762, EDUC 6505, and PSYC 7765.

College of Arts & Sciences Linguistics

LING-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in

ICS Cognitive Science Academic Programs. Same as PSYC 7775, CSCI 7772, EDUC 7775, SLHS 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-7800 (3) Open Topics in Linguistics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. Contact the department office for information. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Linguistics

LING-7900 (1-3) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Linguistics

LING-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Linguistics

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Courses

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MATH

MATH-1005 (3) Introduction to College Mathematics

Introductory level mathematics course which presents a college level introduction to algebraic functions and their applications. Credit not granted for this course and MATH 1011. Course is only offered through the Student Academic Service Center. Meets MAPS requirement for mathematics.

College of Arts & Sciences Mathematics

MATH-1011 (3) Fundamentals and Techniques of College Algebra

Covers simplifying algebraic expressions, factoring linear and quadratic equations, inequalities, exponentials, logarithms, functions, and graphs, and systems of equations. Credit not granted for this course and MATH 1005 or 1150. Prereq., one year high school algebra. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1012 (3) Quantitative Reasoning and Mathematical Skills

Promotes mathematical literacy among liberal arts students. Teaches basic mathematics, logic, and problem-solving skills in the context of higher level mathematics, science, technology, and/or society. This is not a traditional math class, but is designed to stimulate interest in and appreciation of mathematics and quantitative reasoning as valuable tools for comprehending the world in which we live. Credit not granted for this course and QRMS 1010. Approved for GT-MA1. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1021 (2) Numerical and Analytical College Trigonometry

Covers trigonometric functions, identities, solutions of triangles, addition and multiple angle formulas, inverse and trigonometric functions, and laws of sines and cosines. Credit not granted for this course and MATH 1150, 1030 or 1040. Prereqs., MATH 1011 or 1020 or 1 1/2 years of high school algebra and 1 year of high school geometry.

College of Arts & Sciences Mathematics

MATH-1071 (3) Finite Mathematics for Social Science and Business

Discusses systems of linear equations and introduces matrices, linear programming, and probability. Prereq., MATH 1011 or 1 1/2 years of high school algebra. Credit not granted for this course and MATH 1050, 1060 and 1070. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1081 (3) Calculus for Social Science and Business

Covers differential and integral calculus of algebraic, logarithmic, and exponential functions. Prereq., MATH 1011, 1071, 1010, or 1070 or placement exam score for MATH 1020 or two years high school algebra. Credit not granted for this course and MATH 1080, 1090, 1100, 1300, 1310, APPM 1350, and ECON 1088. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1110 (3) The Spirit and Uses of Mathematics 1

For prospective elementary teachers. Includes a study of problem-solving techniques in mathematics, the uses and role of mathematics in our society, and the structure of our familiar number systems. Additional topics are chosen from number theory, ancient numeration systems, computer sciences, modern geometry and algebra and elementary logic. Prereq., one year of high school algebra and one year of plane geometry. The combination MATH 1110 and 1120 is approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1120 (3) The Spirit and Uses of Mathematics 2

Continuation of MATH 1110. Prereq., one year of high school algebra and one year of plane geometry. The combination MATH 1110 and 1120 is approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1130 (3) Mathematics from the Visual Arts

Introduces mathematical concepts through the study of visual arts. Credit not granted for this course and QRMS 1130. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1150 (4) Precalculus Mathematics

Develops techniques and concepts prerequisite to calculus through the study of trigonometric, exponential, logarithmic, polynomial, and other functions. Prereq., one and a half years of high school algebra. Students having credit for college algebra and trigonometry may not receive additional credit for MATH 1150. Students with credit for college algebra receive only 2 additional hours of credit for MATH 1150. Similar to MATH 1000, 1010, 1020, 1011, 1021, 1030, and 1040. Approved for GT-MA1. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1300 (5) Calculus 1

Topics include limits, derivatives of algebraic and trigonometric functions, applications of the derivative, integration and application of the definite integral. Prereqs., two years high school algebra, one year geometry, and 1/2 year trigonometry or MATH 1150. Credit not granted for this course and MATH 1081, 1310, APPM 1345, 1350, and ECON 1088. Similar to MATH 1080, 1090, and 1100. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1310 (5) Calculus, Stochastics, and Modeling

Calculus, probability, statistics, and discrete and continuous modeling are central to understanding the behavior of complex systems, ranging from gene networks and cells to brains and ecosystems. This course is similar to MATH 1300, but a greater emphasis is placed on relevance and applications to complex systems. Especially recommended for biology majors. Prereq., 2 years high school algebra, 1 year geometry, and 1/2 year trigonometry, or MATH 1150. Credit not granted for this course and MATH 1080, 1081, 1090, 1100, 1300, APPM 1350, or ECON 1088. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-1410 (3) Mathematics for Secondary Educators

Assists students in meeting state mathematics certification requirements. Topics include problem solving, number systems, geometry and

measurement, probability and statistics. Enrollment is restricted to students already admitted to or intending to apply for admission to the secondary teacher education program. Prereqs., one year high school algebra, one year geometry. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills. Prerequisites: Restricted to PRED, EDEL, EDEN, EDSS, EDSC, EDMU, EDSP, EDFR, EDGR, EDIT, EDJP or EDLT Students only.

College of Arts & Sciences Mathematics

MATH-2001 (3) Introduction to Discrete Mathematics

Introduces the ideas of rigor and proof through an examination of basic set theory, quantification theory, elementary counting, discrete probability, and additional topics. Prereq., MATH 1300 or APPM 1350.

College of Arts & Sciences Mathematics

MATH-2300 (5) Calculus 2

Continuation of MATH 1300. Topics include transcendental functions, methods of integration, polar coordinates, differential equations, improper integrals, infinite sequences and series, Taylor polynomials and Taylor series. Prereq., MATH 1300. Credit not granted for this course and MATH 1320 or APPM 1360.

College of Arts & Sciences Mathematics

MATH-2380 (3) Mathematics for the Environment

An interdisciplinary course where analysis of real phenomena such as acid rain, population growth, and road-killed rabbits in Nevada leads to consideration of various fundamental concepts in mathematics. One-third of the course consists of individual projects chosen by students. Prereq., proficiency in high school mathematics. Credit not granted for this course and QRMS 2380. Approved for GT-MA1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Mathematics

MATH-2400 (4) Calculus 3

Continuation of MATH 2300. Topics include vectors, three-dimensional analytic geometry, partial differentiation and multiple integrals, and vector analysis. Prereq., MATH 2300. Credit not granted for this course and APPM 2350.

College of Arts & Sciences Mathematics

MATH-2510 (3) Introduction to Statistics

Elementary statistical measures. Introduces statistical distributions, statistical inference, and hypothesis testing. Prereq., two years of high

school algebra. Credit not granted for this course and MATH 4520/5520 or MATH 3510.

College of Arts & Sciences Mathematics

MATH-3001 (3) Analysis 1

Provides a rigorous treatment of the basic results from elementary Calculus. Topics include the topology of the real line, sequences of numbers, continuous functions, differentiable functions, and the Riemann integral. Prereq., MATH 2001.

College of Arts & Sciences Mathematics

MATH-3110 (3) Introduction to Theory of Numbers

Studies the set of integers, focusing on divisibility, congruences, arithmetic functions, sums of squares, quadratic residues and reciprocity, and elementary results on distributions of primes. Prereq., MATH 2001. Offered each spring.

College of Arts & Sciences Mathematics

MATH-3120 (3) Functions and Modeling

Engages the students in lab-based activities designed to strengthen and expand knowledge of the topics in secondary mathematics, focusing especially on topics from Precalculus and Calculus. The labs will involve the use of multiple representations, transformations, data analysis techniques, and interconnections among geometry, probability and algebra. A recurrent theme will be building relationships between discrete and continuous reasoning. Prereqs., Calculus I, MATH 2001, or instructor consent.

College of Arts & Sciences Mathematics

MATH-3130 (3) Introduction to Linear Algebra

Examines basic properties of systems of linear equations, vector spaces, linear independence, dimension, linear transformations, matrices, determinants, eigenvalues, and eigenvectors. Prereq., MATH 2300 or APPM 1360. Credit not granted for this course and APPM 3310.

College of Arts & Sciences Mathematics

MATH-3140 (3) Abstract Algebra 1

Studies the elementary theory of groups, rings, fields, polynomials, group and ring homomorphisms, and isomorphisms. Prereq., MATH 2001 and 3130.

MATH-3170 (3) Combinatorics 1

Covers basic methods and results in combinatorial theory. Includes numeration methods, elementary properties of functions and relations, and graph theory. Emphasizes applications. Prereq., MATH 2001.

MATH-3210 (3) Euclidean and Non-Euclidean Geometry

Axiomatic systems. Foundations of Euclidean and Lobachevskian geometries. Prereq., MATH 2001 and 3130.



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MATH

MATH-3510 (3) Introduction to Probability and Statistics

Introduces the basic notions of Probability: random variables, expectation, conditioning, and the standard distributions (Binomial, Poisson, Exponential, Normal). This course also covers the Law of Large Numbers and Central Limit Theorem as they apply to statistical questions: sampling from a random distribution, estimation, and hypothesis testing. Prereqs., MATH 2001 and MATH 2300 or APPM 1360. Credit not granted for this course and MATH 2510 or MATH 4510.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-3850 (1) Seminar in Guided Mathematics Instruction

Provides Learning Assistants with an opportunity to analyze assessment data for formative purposes, and develop instructional plans as a result of these analyses. These formative assessment analyses will build on the literature in the learning sciences. Students will gain direct experiences interacting with the tools of the trade, especially with actual assessment data and models of instruction. May be repeated up to 3 total credit hours. Restricted to Learning Assistants in Math. Coreq., EDUC 4800.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-4000 (3) Foundations of Mathematics

Focuses on a complete deductive framework for mathematics and applies it to various areas. Presents Goedel's famous incompleteness theorem about the inherent limitations of mathematical systems. Uses idealized computers to investigate the capabilities and limitations of human and machine computation. Prereq., MATH 2001 plus one of 3001, 3130, 3140, or 3210. Same as MATH 5000.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-4001 (3) Analysis II

Provides a rigorous treatment of infinite series, sequences of functions, and an additional topic chosen by the instructor (for example, multivariable analysis, the Lebesgue integral, or Fourier analysis). Prereqs., MATH 3001 and MATH 3130.

College of Arts & Sciences Mathematics

MATH-4120 (3) Introduction to Operations Research

Studies linear and nonlinear programming, the simplex method, duality, sensitivity, transportation, and network flow problems, some constrained and unconstrained optimization theory, and the Kuhn-Tucker conditions, as time permits. Prereqs., MATH 3130 or APPM 3310. Same as MATH 5120 and APPM 4120.

College of Arts & Sciences Mathematics

MATH-4140 (3) Abstract Algebra 2

Covers group actions, Sylow theory, Field theory, and some Galois theory. Prereq., MATH 3140.

College of Arts & Sciences Mathematics

MATH-4200 (3) Introduction to Topology

Introduces the basic concepts of point set topology. Includes topological spaces, metric spaces, homeomorphisms, connectedness, and compactness. Prereqs., MATH 3001 or MATH 4310.

College of Arts & Sciences Mathematics

MATH-4210 (3) Euclidean and Non-Euclidean Geometry II

Continues the study of Euclidean and non-Euclidean geometry from MATH 3210 and examines a more advanced topic from geometry chosen by the instructor (e.g., projective geometry or three-dimensional geometry). Prereq., MATH 3120.

College of Arts & Sciences Mathematics

MATH-4230 (3) Geometry of Curves and Surfaces

Introduces the modern differential geometry of plane curves, space curves, and surfaces in space. Computers are used, but no prior knowledge of computer programming is required. Prereqs., Calculus 3 and MATH 3130.

MATH-4330 (3) Fourier Analysis

The notion of Fourier analysis, via series and integrals, of periodic and nonperiodic phenomena is central to many areas of mathematics. Develops the Fourier theory in depth, and considers such special topics and applications as wavelets, Fast Fourier Transforms, seismology, digital signal processing, differential equations, and Fourier optics. Prereq., MATH 3001 or instructor consent. Same as MATH 5330.

MATH-4430 (3) Ordinary Differential Equations

Involves an elementary systematic introduction to first-order scalar differential equations, n th order linear differential equations, and n -dimensional linear systems of first-order differential equations. Additional topics are chosen from equations with regular singular points, Laplace transforms, phase plane techniques, basic existence and uniqueness, and numerical solutions. Prereqs., Calculus 3, and MATH 3130 or APPM 3310 (min grade C). Similar to APPM 2360.

MATH-4440 (3) Mathematics of Coding and Cryptography

Gives an introduction, with proofs, to the algebra and number theory used in coding and cryptography. Basic problems of coding and cryptography are discussed; prepares students for the more advanced ECEN 5032 and 5682. Prereq., MATH 3130. Recommended prereqs., MATH 3110 and 3140. Same as MATH 5440.

MATH-4450 (3) Introduction to Complex Variables

Theory of functions of one complex variable, including integrals, power series, residues, conformal mapping, and special functions. Prereqs., MATH 2400 and 3001.

MATH-4470 (3) Partial Differential Equations 1

Studies initial, boundary, and eigenvalue problems for the wave, heat, and potential equations. Solution by separation of variables, Green's function, and variational methods. Prereq., MATH 4430 or equivalent. Same as MATH 5470.

MATH-4510 (3) Introduction to Probability Theory

Studies axioms, combinatorial analysis, independence and conditional probability, discrete and absolutely continuous distributions, expectation and distribution of functions of random variables, laws of large numbers, central limit theorems, and simple Markov chains. Prereqs., MATH 2400, or APPM 2350, and MATH 3130. Credit not granted for this course and APPM 3570, ECEN 3810, or MATH 3510.

MATH-4520 (3) Introduction to Mathematical Statistics

Examines point and confidence interval estimation. Principles of maximum likelihood, sufficiency, and completeness: tests of simple and composite hypotheses, linear models, and multiple regression analysis. Analyzes variance distribution-free methods. Prereq., MATH 4510 or APPM 3570. Same as MATH 5520 and APPM 4520. Credit not granted for this course and MATH 2510.

MATH-4540 (3) Introduction to Time Series

Stresses basic properties, linear extrapolation, and filtering of stationary random functions. Topics also include spectral analysis and estimation of the power spectrum using computers. Prereqs., MATH 4510/APPM 3570 and MATH 4520/APPM 4520. Same as MATH 5540 and APPM 4540.

MATH-4650 (3) Intermediate Numerical Analysis 1

Focuses on numerical solution of nonlinear equations, interpolation, methods in numerical integration, numerical solution of linear systems, and matrix eigenvalue problems. Stresses significant computer applications and software. Prereqs., APPM 3310 or Math 3130, and knowledge of a programming language. Same as Appm 4650.

MATH-4660 (3) Intermediate Numerical Analysis 2

Topics include solution of algebraic and transcendental equations, and linear and nonlinear systems of equations. Highlights interpolation, integration, solution of ordinary differential equations, least squares, sources of error and error analysis, computer implementation of numerical methods, matrix eigenvalue problems, and summation of infinite series. See also MATH 4650. Prereq., MATH 4650. Same as APPM 4660.

College of Arts & Sciences Mathematics

MATH-4730 (3) Set Theory

Studies in detail the theory of cardinal and ordinal numbers, definition by recursion, the statement of the continuum hypothesis, simple cardinal arithmetic, and other topics chosen by the instructor. Prereq., MATH 2001 plus one upper division MATH class.

College of Arts & Sciences Mathematics

MATH-4805 (1) Mathematical Teacher Training: Inclusive Pedagogy

Designed to train students to teach mathematics in an inclusive, multicultural environment. Students teach a math course within the McNeill Academic Program (Student Academic Services Center) meeting weekly with faculty and colleagues to learn to re-design curriculum, fine-tune pedagogical practices, create assessments, mentor undergraduate instructor assistants and create an inclusive classroom environment. May be repeated up to 4 total credit hours. Prereqs., senior or graduate standing, experience with college-level instruction.

College of Arts & Sciences Mathematics

MATH-4820 (3) History of Mathematical Ideas

Examines the evolution of a few mathematical concepts (e.g., number, geometric continuum, or proof), with an emphasis on the controversies surrounding these concepts. Begins with Ancient Greek mathematics and traces the development of mathematical concepts through the middle ages into the present. Prereq., two upper division courses in mathematics. Recommended prereq., completion of upper division Written Communication requirement.

College of Arts & Sciences Mathematics

MATH-4890 (1-3) Honors Independent Study

Offered for students doing a thesis for departmental honors.

College of Arts & Sciences Mathematics

MATH-4900 (1-3) Independent Study

College of Arts & Sciences Mathematics

MATH-5000 (3) Foundations of Mathematics

Focuses on a complete deductive framework for mathematics and applies it to various areas. Presents Goedel's famous incompleteness theorem about the inherent limitations of mathematical systems. Uses idealized computers to investigate the capabilities and limitations of human and machine computation. Restricted to graduate students only. Prereqs., MATH 3130 and 3140. Same as MATH 4000. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Mathematics](#)

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MATH

MATH-5030 (3) Intermediate Mathematical Physics 1

Surveys classical mathematical physics, starting with complex variable theory and finite dimensional vector spaces. Discusses topics in ordinary and partial differential equations, the special functions, boundary value problems, potential theory, and Fourier analysis. Prereqs., MATH 4001 and 4320. Undergraduates must have approval of the instructor. Same as PHYS 5030. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-5040 (3) Intermediate Mathematical Physics 2

Surveys classical mathematical physics, starting with complex variable theory and finite dimensional vector spaces. Discusses topics in ordinary and partial differential equations, the special functions, boundary value problems, potential theory, and Fourier analysis. Prereq., MATH 5030. Undergraduates must have approval of the instructor. Same as PHYS 5040.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-5120 (3) Introduction to Operations Research

Prereq., MATH 3130 or APPM 3310. Undergraduates must have approval of the instructor. Same as MATH 4120, APPM 5120.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-5150 (3) Linear Algebra

Highlights vector spaces, linear transformations, eigenvalues and eigenvectors, and canonical forms. Prereq., MATH 3130.

Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-5330 (3) Fourier Analysis

Undergraduates must have approval of the instructor. Prereq., MATH 4001. Same as MATH 4330. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-5430 (3) Ordinary Differential Equations

Introduces theory and applications of ordinary differential equations, including existence and uniqueness theorems, qualitative behavior, series solutions, and numerical methods, for scalar equations and systems. Prereqs., MATH 3130 and 4310. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-5440 (3) Mathematics of Coding and Cryptography

Undergraduates must have approval of the instructor. Prereq., MATH 3130. Recommended prereqs., MATH 3110 and 3140. Same as MATH 4440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-5470 (3) Partial Differential Equations 1

Prereq., MATH 4430 or APPM 2360. Undergraduates need instructor consent. Same as MATH 4470. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-5520 (3) Introduction to Mathematical Statistics

Prereq., MATH 4510 or APPM 3570. Undergraduates must have approval of the instructor. Same as MATH 4520 and APPM 5520. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-5540 (3) Introduction to Time Series

Prereqs., MATH 4510/APPM 3570 and MATH 4520/APPM 4520. Undergraduates must have approval of the instructor. Same as MATH 4540/APPM 5540.

College of Arts & Sciences Mathematics

MATH-5600 (3) Numerical Analysis 1

Solution of nonlinear algebraic equations, interpolation, approximation theory, and numerical integration. Prereqs., APPM 3130 or MATH 3130, and experience with a scientific programming language. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-5610 (3) Numerical Analysis 2

Solution of linear systems, eigenvalue problems, optimization problems, and ordinary and partial differential equations. Prereq., MATH 5600 or APPM 5600. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-5905 (1) Mathematics Teacher Training

Designed to train students to become effective teachers. Students teach a mathematics course, meeting weekly with faculty to discuss problems particular to the teaching of mathematics. Prereqs., graduate standing and experience as a teaching assistant. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6000 (3) Model Theory

Proves the compactness theorem, showing the essential finiteness of logical implication. Proves many basic properties of theories, showing how the syntactic form of statements influences their behavior w.r.t, different models. Finally, studies properties of elements that cannot be stated by a single formula (the type of the element) and shows it can be used to characterize certain models. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6010 (3) Computability Theory

Studies the computable and uncomputable. Shows that there are undecidable problems, and from there builds up the theory of sets of natural numbers under Turing reducibility. We will study Turing reducibility, the arithmetical hierarchy, oracle constructions, and end with the finite injury priority method. Recommended prereq., MATH 6000. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6110 (3) Introduction to Number Theory

Examines divisibility properties of integers, congruencies, diophantine equations, arithmetic functions, quadratic residues, distribution of primes, and algebraic number fields. Prereq., MATH 3140. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6130 (3) Algebra 1

Studies group theory and ring theory. Prereq., MATH 3140. Undergraduates need instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6140 (3) Algebra 2

Studies modules, fields, and Galois theory. Prereq., MATH 6130. Undergraduates need instructor consent.

College of Arts & Sciences Mathematics

MATH-6150 (3) Commutative Algebra

Introduces topics used in number theory and algebraic geometry, including radicals of ideals, exact sequences of modules, tensor products, Ext, Tor, localization, primary decomposition of ideals, and Noetherian rings. Prereq., MATH 6140. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6170 (3) Algebraic Geometry

Introduces algebraic geometry, including affine and projective varieties, rational maps and morphisms, and differentials and divisors. Additional topics might include Bezout's Theorem, the Riemann-Roch Theorem, elliptic curves, and sheaves and schemes. Prereq., MATH 6140. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-6180 (3) Algebraic Number Theory

Introduces number fields and completions, norms, discriminants and differentials, finiteness of the ideal class group, Dirichlet's unit

theorem, decomposition of prime ideals in extension fields, decomposition, and ramification groups. Prereqs., MATH 6110 and 6140. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-6190 (3) Analytic Number Theory

Acquaints students with the Riemann Zeta-function and its meromorphic continuation, characters and Dirichlet series, Dirichlet's theorem on primes in arithmetic progressions, zero-free regions of the zeta function, and the prime number theorem. Prereqs., MATH 6110 and 6350. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-6210 (3) Introduction to Topology 1

Introduces elements of general topology, algebraic topology, and differentiable manifolds. See also MATH 6220. Prereqs., MATH 3130, 3140 and 4320. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6220 (3) Introduction to Topology 2

Introduces elements of general topology, algebraic topology, and differentiable manifolds. See also MATH 6210. Prereq., MATH 6210. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-6230 (3) Introduction to Differential Geometry 1

Instructs students on fundamental concepts such as manifolds, differential forms, de Rham cohomology, Riemannian metrics, connections and curvatures, fiber bundles, complex manifolds, characteristic classes, and applications to physics. Prereqs., MATH 3130 and 4320. Undergraduates must have instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics



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MATH

MATH-6240 (3) Introduction to Differential Geometry 2

Continuation of MATH 6230. Undergraduates must have instructor consent.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-6250 (3) Theory of Rings

Studies semi-simple Artinian rings, the Jacobson radical, group rings, representations of finite groups, central simple algebras, division rings and the Brauer group. Prereq., MATH 6130, 6140. Undergraduates must have approval of the instructor.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-6260 (3) Geometry of Quantum Fields and Strings

Focuses on differential geometric techniques in quantum field and string theories. Topics include spinors, Dirac operators, index theorem, anomalies, geometry of superspace, supersymmetric quantum mechanics and field theory, and nonperturbative aspects in field and string theories. Prereq., MATH 6230, PHYS 5250, or instructor consent. Recommended prereqs., MATH 6240 and PHYS 7280.

Undergraduates must have approval of the instructor. Same as PHYS 6260.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-6270 (3) Theory of Groups

Studies nilpotent and solvable groups, simple linear groups, multiply transitive groups, extensions and cohomology, representations and

character theory, and the transfer and its applications. Prereq., MATH 6130. Recommended prereq., MATH 6140. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-6280 (3) Advanced Algebraic Topology

Covers homotopy theory, spectral sequences, vector bundles, characteristic classes, K-theory and applications to geometry and physics. Prereq., MATH 6220 or instructor consent. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6290 (3) Homological Algebra

Studies categories and functors, abelian categories, chain complexes, derived functors, Tor and Ext, homological dimension, group homology and cohomology. If time permits, the instructor may choose to cover additional topics such as spectral sequences or Lie algebra homology and cohomology. Prereqs., MATH 6130 and 6140. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6310 (3) Introduction to Real Analysis 1

Presents the basic notions of analysis, e.g., limits, \limsup and \liminf , continuity, and the topology of the real line; develops the number theory of Lebesgue measure and the Lebesgue integral on the line, emphasizing the various notions of convergence and the standard convergence theorems. Applications are made to the classical L_p spaces. Prereq., MATH 4001. Instructor consent required for undergraduates. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6320 (3) Introduction to Real Analysis 2

Covers general metric spaces, the Baire Category Theorem, and general measure theory, including the Radon-Nikodym and Fubini theorems. Presents the general theory of differentiation on the real line and the Fundamental Theorem of Lebesgue Calculus. Prereq., MATH 6310. Instructor consent required for undergraduates.

College of Arts & Sciences Mathematics

MATH-6350 (3) Functions of a Complex Variable 1

Focuses on complex numbers and the complex plane. Includes Cauchy-Riemann equations, complex integration, Cauchy integral theory, infinite series and products, and residue theory. Prereq., MATH 4001. Undergraduates need instructor consent. Prerequisites: Restricted to Graduate Students only.

MATH-6360 (3) Functions of a Complex Variable 2

Focuses on conformal mapping, analytic continuation, singularities, and elementary special functions. Prereq., MATH 6350. Instructor consent required for undergraduates.

MATH-6534 (3) Topics in Mathematical Probability

Offers selected topics in probability such as sums of independent random variables, notions of convergence, characteristic functions, Central Limit Theorem, random walk, conditioning and martingales, Markov chains, and Brownian motion. Prereq., MATH 6310 or equivalent. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

MATH-6550 (3) Introduction to Stochastic Processes

Systematic study of Markov chains and some of the simpler Markov processes, including renewal theory, limit theorems for Markov chains, branching processes, queuing theory, birth and death processes, and Brownian motion. Applications to physical and biological sciences. Prereqs., MATH 4001, 4510 or APPM 3570 or 4560. Undergraduates must have approval of the instructor. Same as APPM 6550. Prerequisites: Restricted to Graduate Students only.

MATH-6730 (3) Set Theory

Presents cardinal and ordinal arithmetic, and basic combinatorial concepts, including stationary sets, generalization of Ramsey's theorem, and ultrafilters, consisting of the axiom of choice and the generalized continuum hypothesis. Prereqs., MATH 4000 and 4730, or MATH 5000, or instructor consent. Undergraduates need instructor consent. Prerequisites: Restricted to Graduate Students only.

MATH-6740 (3) Forcing

Presents independence of the axiom of choice and the continuum hypothesis, Souslin's hypothesis, and other applications of the method of forcing. Introduces the theory of large cardinals. Prereq., MATH 6730. Undergraduates need instructor consent.

MATH-6900 (1-3) Independent Study

Undergraduates must have approval of the instructor. May be repeated up to 6 total credit hours.

College of Arts & Sciences Mathematics

MATH-6940 (1) Master's Degree Candidate

This course is for students preparing for the no-thesis option for a master's degree. The content is set by the students' advisors.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-6950 (1-6) Master's Thesis

College of Arts & Sciences Mathematics

MATH-8114 (3) Topics in Number Theory

May include the theory of automorphic forms, elliptic curves, or any of a variety of advanced topics in analytic and algebraic number theory. Prereq., MATH 6110. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-8174 (3) Topics in Algebra I

Prereqs., MATH 6130 and 6140. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-8250 (3) Mathematical Theory of Relativity 1

Focuses on Maxwell equations, Lorentz force, Minkowski space-time, Lorentz, Poincare, and conformal groups, metric manifolds, covariant differentiation, Einstein space-time, cosmologies, and unified field theories. Prereq., instructor consent. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-8304 (3) Topics in Analysis 1

Presents advanced topics in analysis including Lie groups, Banach algebras, operator theory, ergodic theory, representation theory, etc. Prereqs., MATH 8330 and 8340, or instructor consent. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-8330 (3) Functional Analysis 1

Introduces such topics as Banach spaces (Hahn-Banach theorem, open mapping theorem, etc.), operator theory (compact operators and integral equations, and spectral theorem for bounded self-adjoint operators), and Banach algebras (the Gelfand theory). See also MATH 8340. Prereqs., MATH 6310 and 6320. Undergraduates must have approval of the instructor. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Mathematics

MATH-8340 (3) Functional Analysis 2

Introduces such topics as Banach spaces (Hahn-Banach theorem, open mapping theorem, etc.), operator theory (compact operators and integral equations, and spectral theorem for bounded self-adjoint operators), and Banach algebras (the Gelfand theory). See also MATH 8330. Prereq., MATH 8330. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-8370 (3) Harmonic Analysis 1

Examines trigonometric series, periodic functions, diophantine approximation, and Fourier series. Also covers Bohr and Stepanoff almost periodic functions, positive definite functions, and the L1 and L2 theory of the Fourier integral. Applications to group theory and differential equations. See also MATH 8380. Prereq., MATH 5150 and 6320. Undergraduates must have approval of the instructor.

College of Arts & Sciences Mathematics

MATH-8714 (3) Topics in Logic 1 and 2

College of Arts & Sciences Mathematics



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MATH

MATH-8815 (1-3) Ulam Seminar

May be repeated up to 3 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-8900 (1-3) Independent Study

Undergraduates must have approval of the instructor. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Mathematics](#)

MATH-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School portion of the catalog.

[College of Arts & Sciences](#) [Mathematics](#)



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MBAC

MBAC-6000 (3) Socially Responsible Enterprise

Prepares future managers for confronting the truly difficult situations that arise when deploying economic resources, altering the physical environment, and making decisions that affect the lives of investors, employees, community members and other stakeholders. Case-based challenges will be examined in a broad range of contexts, and essential ethical concepts will be explored by drawing on theories from ethics, sociology, economics, political science and philosophy. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Core Courses](#)

MBAC-6010 (3) Managerial Economics

Studies the elements of the business firm's fundamental problem---how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Core Courses](#)

MBAC-6011 (2) Managerial Economics 1

Studies the elements of the business firm's fundamental problem---how to maximize profits. Develops for each element managerial theory based upon introductory and intermediate-level microeconomics. Analyzes various applications and misapplications of the relevant concept, primarily through case studies. Differential calculus and statistics are used throughout the course. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Core Courses](#)

MBAC-6012 (2) Managerial Economics 2

See MBAC 6011. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Core Courses](#)

MBAC-6020 (3) Financial Accounting

Introduces the financial reporting system used by business organizations to convey information about their economic affairs. Develops an understanding of financial reports and what they tell about a business enterprise. Focuses on how alternative accounting measurement rules represent different economic events in financial reports. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Core Courses](#)

MBAC-6030 (3) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory and sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers, and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Core Courses](#)

MBAC-6031 (2) Quantitative Methods

Covers foundations for statistical reasoning and statistical applications in business. Topics include graduate-level treatment of descriptive statistics, probability, probability distributions, sampling theory, sampling distributions, and statistical inference (estimation and hypothesis testing). Provides an introduction to regression analysis, analysis of variance, time series forecasting, decision analysis, index numbers and nonparametric methods. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Core Courses](#)

MBAC-6050 (3) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Core Courses](#)

MBAC-6052 (3) Capstone Projects

Provides students with an opportunity to focus on a specific project which would have a positive strategic impact on the company for which they work. For those who have entrepreneurial aspirations, this project could result in a business plan for a new venture. Final deliverable should address marketing, financial, operational, and management implications and strategic impact. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Core Courses](#)

MBAC-6060 (3) Corporate Finance

Analyzes the implications of modern finance theory for the major decisions faced by corporate financial managers. Develops the basic skills necessary to apply financial concepts to the various problems faced by a firm. Includes capital budgeting, capital structure, long term financing, short term financial management, and financial planning topics. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6080 (3) Decision Modeling and Applications

Integrates topics from decision analysis and operations management as they relate to modeling management decisions. Field projects involve the university, local companies, and/or government agencies. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6090 (3) Marketing Management

Provides a solid foundation of marketing knowledge by focusing on principles of marketing. Introduces the role that marketing cases play in advancing understanding and skill development in the field of marketing. Case discussions illustrate concepts discussed, and case studies are used to introduce the marketing decision making process. Emphasizes the international nature of marketing, as well as the importance of analysis and the understanding of the economic, demographic, political-legal-regulatory, sociocultural, technological, and natural environments. Prereq., MBAC 6030. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6098 (1) Business Writing

Develops business writing skills, with specific focus on style rather than content. Assists students in improving their writing skills in order to be effective communicators in their professional careers. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAC-6099 (2) Professional Development

Develops presentation and interview skills to help students become effective communicators in their professional careers and to acquaint themselves well in the job placement process. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX

MBAX-6051 (2) Strategy

Analyzes how firms can attain and sustain competitive advantage in today's competitive environment. Focuses on industry dynamics, competitive positioning, firm capabilities, and corporate innovation. Introduces a set of tools for assisting managers in solving complex, real-world business problems in strategy development. Integrates MBA learning in functional areas, and emphasizes the fit between competitive analysis and the role of management and organization.

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MBAX-6100 (3) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures. Allows students to assess their fit with entrepreneurial firms. Key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereq., MBAC 6020 or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Entrepreneurship](#)

MBAX-6101 (2) Entrepreneurship

Examines the environments of entrepreneurial firms from start-up to development of ventures; allows students to assess their "fit" with entrepreneurial firms. A key element is learning the process of determining the difference between ideas and commercializable opportunities through feasibility analysis and plans. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6110 (3) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereq., MBAC 6020. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6111 (2) Entrepreneurial Finance

Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, and preparation for, and execution of, an initial public securities offering. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Entrepreneurship](#)

MBAX-6120 (3) Entrepreneurial Marketing

Addresses the marketing challenges that face the entrepreneur or start up firm with a limited budget. From initially positioning the company and its products to marketing that position to key shareholders for a new venture, to establishing channels of distribution and reaching the consumer, take a specialized look at the development and implementation of a marketing plan. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6170 (3) Business Plan Preparation

Completion of a sophisticated business plan within task groups from concept through all the elements of a professionally written business plan. Provides students high interaction with businesses and entrepreneurs. Prereq., MBAC 6020 and MBAX 6100, or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6171 (2) Business Plan Preparation

In this course students will be responsible for the completion of a sophisticated business plan within task groups from the concept through all the elements of a professionally written business plan. The course provides students high interaction with businesses and entrepreneurs. Prereqs., MBAC core courses and MBAX 6100, or instructor consent. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6180 (3) Startup Execution

Covers a variety of topics in applied entrepreneurship, including the steps required to legally launch a business and procedures for executing standard business functions (organization, marketing, sales, advertising, operations, team building, and finance) with minimal resources (cash, personnel, and equipment). Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6190 (3) Projects in Entrepreneurial Companies

Limited to 12 students per section, each student is matched with an entrepreneurial company to complete a project that is key to company strategy. Students experience total company environment from the top management level through attending management meetings and interacting with cross-functional managers and employees. E-mail and face-to-face meetings result in discussing opportunities and issues resulting from experiences in companies. Prereq., MBAX 6100. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6200 (3) Advanced Corporate Finance

Covers the theory of asset pricing, which is then applied to capital budgeting, capital structure choice, mergers and acquisitions, and risk management. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6210 (3) Applied Financial Management

Analyzes the financial condition, planning, and control of current assets, current liabilities, and long-term financial arrangements. Topics include financial planning, managing working capital, short- and long-term financing, capital budgeting, valuation, and capital structure policies. Case studies are emphasized. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) [Master of Business Administration](#) [MBA: Finance](#)

MBAX-6211 (2) Applied Financial Management

Focuses on how to apply key concepts in finance to real-world situations. Topics include valuation, capital structure, highly leveraged transactions, and financial distress and bankruptcy. Heavy emphasis on how to perform various kinds of valuations. Mixture of lectures and case discussions. Prereq., MBAC 6060. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6220 (3) Investment Management and Analysis

Covers managing investment portfolios by blending academic theories and evidence with practitioner experience. Topics include risk and return relationships, securities, value theory (capital asset, arbitrage, and option pricing), portfolios, and performance evaluations. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6221 (2) Investment Management & Analysis

Covers managing investment portfolios by blending academic theories and evidence with practitioner experience. Topics include risk and return relationships, securities, value theory (capital asset, arbitrage, and option pricing), portfolios, and performance evaluations. Prereqs., MBAC core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6230 (3) International Financial Management

Examines the financial procedures, policies, and risks faced by firms conducting business internationally. Topics include examining the international finance environment, managing foreign exchange risk exposure, managing international working capital, conducting analysis, and developing an understanding of international financial markets. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6240 (3) Financial Markets and Institutions

Deals with the economics of financial markets and the management of financial institutions. Covers factors influencing the cost and availability of capital for financing business firms. Examines both domestic and international markets and institutions. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6250 (3) Derivative Securities

Derivatives, like options, futures, forwards, and swaps, encompass all aspects of finance. Topics cover the characteristics, valuation, and trading strategies associated with derivatives as well as their use in risk management. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Finance

MBAX-6260 (3) Fixed Income Investing

Fixed income securities are those that nominally promise a fixed stream of payments. They include government and corporate long and short term debt issues that far exceed the amount of corporate stock issues, as well as long term personal debt (i.e., home mortgages). Develops practical analytical tools for describing these securities, the markets where they are traded, and their purchase and management by financial intermediaries. Stresses the huge market for U.S. government debt, because it provides a foundation for the development of more specialized tools used in other markets. Prereq., MBAC 6060. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6300 (3) Marketing Communication

Focuses on the strategic and decision making aspects of marketing communication from a managerial perspective. Increases students' understanding of specific decision elements within an integrated marketing communications framework. Topics include promotional objectives, agency relations, media selection, budgeting, and advertising research. Also explores relevant advertising models and the economic and social effects of promotional activity. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Marketing](#)

MBAX-6301 (2) Marketing Communications

Focuses on the strategic and decision-making aspects of marketing communication from a managerial perspective. Designed to increase students' understanding of specific decision elements within an integrated marketing communications framework. Topics covered include promotional objectives, agency relations, media selection, budgeting, and advertising research. Explores relevant advertising models and the economic and social effects of promotional activity. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6310 (3) Marketing Strategy

Marketing strategy has developed into an increasingly critical managerial activity as businesses recognize the importance of creating customer value and being customer oriented. Discusses key elements of successful marketing strategy including market/customer analysis and competitor analysis, and identifies strategic approaches managers may adopt to succeed in today's highly competitive and rapidly changing business environment. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6311 (2) Marketing Strategy

Marketing strategy is a critical managerial activity that recognizes the importance of a strong market focus and the delivery of superior customer value as bases for long term financial success. This course examines key elements of successful marketing strategy including optimal market definition, strong segmentation and positioning approaches, high levels of customer satisfaction, and effective management of critical exchange relationships. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6330 (3) Market Intelligence

Market Intelligence is a decision-oriented course geared toward gathering, analyzing, and interpreting data about markets and customers. Students learn how to: define the marketing problem and determine what information is needed to make the decision; acquire trustworthy and relevant data and judge its quality; analyze the data and acquire the necessary knowledge to make certain classic types of marketing decisions. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6331 (2) Market Intelligence

Market Intelligence is a marketing decision-oriented course geared toward gathering, analyzing, and interpreting data about markets and customers for both products and services. It is for managers as users of market information across marketing management, consulting, general management, and entrepreneurship to address problems of market selection, segmentation, positioning, new products, customer value and retention, pricing, communication, channel, etc. Prereq., MBAC core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX

MBAX-6340 (3) Marketing Field Project

Develops skills in marketing decision making. Teams design and complete a project located at a client business or other organization in the metropolitan area. Team members organize and assign responsibilities, interact with middle- and top-level managers, apply quantitative and behavioral tools presented in marketing and other courses, meet deadlines, and present results of project activities. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6350 (3) Digital Marketing

Covers a variety of ways an organization uses online presence to support its goals. The main approaches covered are search engine optimization (SEO); online advertising, especially search ads (also called search engine marketing, SEM); and social media. SEO is setting up your website so that the right people can find you. Emphasis placed on selecting keywords and tracking responses to changes to a website. SEM refers to paid ("sponsored") ads on search engines. We will focus on AdWords. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6360 (3) New Product Development

Provides a better understanding of the new-product development process, highlighting the inherent risks and strategies for overcoming them. Using a combination of lectures, cases, and a project, this course examines the process of designing, testing, and launching new products. Emphasizes the interplay between creativity and analytical marketing research throughout the development process. Also covers branding issues, such as brand extensions and their impact on brand equity. Prereq., MBAC 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6361 (2) New Product Development

Provides students with a better understanding of the new-product development process, highlighting the inherent risks and different strategies for overcoming them. Using a combination of lectures, cases, and a project, this course will examine the process of designing, testing and launching new products. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Marketing

MBAX-6410 (3) Business Process Design

Covers the concepts and tools to design and manage business processes. Emphasizes modeling and analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Systems

MBAX-6420 (3) IT and Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. Combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoptions efforts to success. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Systems

MBAX-6421 (2) IT & Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. This course combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to success. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

Leeds School of Business | Master of Business Administration | MBA: Management

MBAX-6440 (3) Project Management

Acquaints students with multidisciplinary aspects of project management, including the relationship between schedule, cost and performance. The course uses a hands-on project where the student interacts with a real customer, providing an opportunity to utilize the qualitative and quantitative tools taught in the classroom. At the conclusion of the course, the student may be eligible to apply for a project management certification from Project Management Institute based on previous work experience. Prerequisites: Restricted to Master of

Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6441 (2) Project Management

Acquaints the student with multidisciplinary aspects of project management, including the relationship between scope, schedule, cost and performance. Uses a hands-on project from your own company, providing an opportunity to utilize the qualitative and quantitative tools taught in the classroom. During the course students will earn hours toward project management certification from the Project Management Institute. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6450 (3) International Operations Management

Takes a broad comprehensive perspective on managing and operating in a rapidly growing global economy. Explores regional and national approaches to international operations including trade practices; penetration strategies; financial, marketing, services, and manufacturing operations; ethical and sustainability issues; and global competitive strategy. Compares global business practices in Asia, South America, Europe, and Africa. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6460 (3) Supply Chain Management

Explores the key issues related to the design and management of supply chains. Covers the efficient integration of suppliers, production facilities, warehouses, and stores so that the right products in the right quantity reach customers at the right time. Focuses on the minimization of the total supply chain cost subject to service requirements imposed by a variety of industries. Recommended prereq., MBAC 6080. Same as OPIM 4050. Formerly MBAX 6865. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6500 (3) Management of Organizational Change

Explores ways to improve organizations to meet demands of changing environments. Emphasizes theoretical framework and models of organization change, barriers to implementing change and ways to overcome them, and the roles of the change agent and/or consultant. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6530 (3) Negotiating and Conflict Management

Explores and builds skills for conflict management and negotiation problems faced by managers (e.g., dealing with subordinates, peers, superiors, or clients). Content is relevant to all MBA students, especially those interested in management, accounting, entrepreneurship, finance, and marketing. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6531 (2) Negotiations

Practice the art and science of successful negotiations. Provides students high interaction with businesses and entrepreneurs. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Management](#)

MBAX-6540 (3) Consulting Skills

Provides an integrative, hands-on exercise in managing change. Develops skills in contracting, collecting, and analyzing data, and writing reports. Teams practice these skills by conducting an organizational diagnosis, consulting project within an organization. Prereq., MBAC 6040. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6550 (3) Management of Technology and Innovation

Examines a variety of issues common to management of technology, such as technology strategies, methods of technology transfer, selecting technology standards, managing the research and development process, and encouraging and rewarding innovation. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6560 (3) Executive Leadership

Examines organizational leadership from the executive perspective, including private and public sector firms, and non-profits. Studies how executives lead change and innovation, interact with the top management team, and deal with the board of directors. Topics include governance of the firm, strategies for enhancing executive influence, assessing and understanding diverse leadership styles, and the ethics and responsibilities of an executive. Formerly MBAX 6890. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6561 (2) Executive Leadership

Provides an opportunity to examine leadership from the executive perspective in organizations including private and public sector firms

and non-profits. Topics covered include how executives lead change and innovation in organizations, interact with the top management team, deal with the board of directors, leadership issues involved with governance of the firm and strategies for enhancing executive influence. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

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MBAX-6600 (3) Real Estate Principles

Studies methods of analyzing real estate opportunities, local government controls and regulations of the development process. Majority of class material is provided via case studies and guest lecturers. Last portion of the course will be the presentation of student group projects. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX-6610 (3) Real Estate Finance and Investment Analysis

Objectives of the course are to conduct income property investment analysis; to develop the technical competence necessary to structure real estate transactions; and to understand the financial assets securitized by real estate. Students will analyze income properties using Excel spreadsheets and Argus Financial Software. Techniques for structuring real estate transactions examined in this course include lender participations, sale-leasebacks, joint ventures, and real estate syndications. Prereq., MBAX 6600 or equivalent, or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Real Estate](#)

MBAX-6620 (3) Real Estate Project Competition

Develops skills in real estate decision making. Teams design, complete, and present a real estate project in a competition forum. Students gain an understanding and working knowledge of real estate, use a piece of real property to determine its highest and best use, create a sales plan, and prepare a real estate financing package. Team members organize and assign responsibilities, interact with real estate professionals, and apply appropriate quantitative and qualitative tools and procedures. Prereqs., MBAX 6600, 6610 and 6640, or equivalent, or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Real Estate](#)

MBAX-6630 (3) Real Estate Economics

Examines real estate market operations and discusses alternative methodologies for estimating real estate values. Examines various theories of land price determination and uses these models to understand how the private market allocates land to competing residential, office, retail, industrial/warehouse, hotel, and other end users. Examines how factors influencing the demand for real estate interact with the supply of real estate to determine market rents and how the flow of future expected income is capitalized to yield the market price of the asset. Prereqs., MBAC 6011 and MBAC 6060. Formerly MBAX 6835. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Real Estate](#)

MBAX-6640 (3) Real Estate Law and Practice

Examines the legal issues associated with developing, acquiring, transferring, and leasing real property. Topics include real estate contracts, land use and development agreements, vehicles for owning real estate, real estate covenants, conditions and restrictions, loan transactions, negotiating real estate contracts, commercial leases and real estate taxation. Material for this course will consist of assigned articles and real estate cases. Prereq., MBAX 6600 or equivalent, or instructor consent. Formerly MBAX 6855. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Real Estate](#)

MBAX-6700 (3) Corporate Financial Reporting

Provides an in-depth study of the concepts underlying contemporary financial accounting practice. Includes preparation and analysis of financial statements and the application of concepts to selected current issues. Prereq., MBAC 6020 or equivalent. Same as ACCT 6220. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Accounting](#)

MBAX-6710 (3) Financial Statement Analysis

Focuses on the use of accounting information by decision makers external to the firm. Considers judgments made by security analysts, bank lending officers, and auditors. Emphasizes credit scoring, risk analysis, and equity valuation. Prereq., MBAC 6020 or equivalent. Same as ACCT 6250. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

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MBAX

MBAX-6760 (3) Accounting for Managers

Explores cost management, especially as related to organizational decision making, planning, and control. Emphasizes case analysis and applications. Prereq., MBAC 6020 or equivalent or instructor consent. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Accounting](#)

MBAX-6761 (2) Managerial Accounting, Planning and Control

Introduces managerial accounting, which includes the concepts, models, and systems that provide this information and control. The course will familiarize participants with the terminology and basic concepts of managerial accounting, touching on topics ranging from development and use of cost information for decision-making to management control systems. Prereq., MBAC 6020. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Accounting](#)

MBAX-6801 (3) Global Perspectives Seminar

Provides students with an in-depth perspective about a specific country or region outside the United States. The course can focus on a different region or country each time it is offered. If demand for this type of experience is strong, multiple sections of the course could be offered in a given semester, each focusing on a different region or country. The choice of region and the specific focus of each course would depend on the faculty member teaching the course. May be repeated up to 6 total credit hours. Prereqs., MBAC 6010, 6060 and 6090. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Management](#)

MBAX-6802 (3) Pricing Strategy and Tactics

Pricing provides the means to capture value. The course covers theories, analytical tools and conceptual frameworks needed for devising price strategy as part of the value proposition for products and services. It draws upon principles from economics, marketing and psychology. Primary and secondary data based analysis is used to understand price response and competitive pricing. Substantive topics include customized pricing, price negotiations, bidding and auctions, price discounting, trade promotion, bundling, behavioral pricing, among others. Prereqs., all MBA core courses. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Management](#)

MBAX-6803 (3) Microfinance

Links financial markets with entrepreneurship to create a platform for the poor to start their own business. Participants learn how to combine technical knowledge of finance and international business development with the socially and ethically important microfinance field to help with sustainable economic development and reduce poverty worldwide, including the United States. Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Finance](#)

MBAX-6804 (3) Leading Effectively in Today's Environment

Explores a set of concepts, models and tools that you can use to lead and manage effectively in today's environment. Covers three key topics: leading change, building success through people, working effectively in a global environment. Provides better understanding of challenges managers face when leading change.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Management](#)

MBAX-6805 (3) Entrepreneurship and the Venture Capital Process

This course will be articulated into two main parts, tightly interrelated: Entrepreneurship and the Venture Capital Process. The first part has the objective to lead the students to understand what venture capital is, how it works, how you structure capital raising, and how it helps entrepreneurial initiatives. The second part concerns how venture capitalists manage their operations, secure investment deals, and maintain their portfolios. Prereqs., MBAC 6011, 6020, 6031, 6040, 6060, 6080, and 6090. Restricted to LAWS students and graduate students in business. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Entrepreneurship](#)

MBAX-6815 (3) Sustainable Real Estate

Explores techniques, processes, tools, and capabilities required to manage growth and land use change in the light of shifts beginning to transform the way we approach land use and real estate development. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Real Estate](#)

MBAX-6825 (3) Topics in Sustainable Business

Provides a comprehensive overview of the core concepts, strategies and practices of sustainable business, emphasizing innovative business practices and entrepreneurial opportunities created by the sustainability "movement". The topic of sustainability will be approached from the unique perspectives of seven core disciplines of business administration: economics, strategy, ethics, organizational behavior, operations, finance and accounting, and marketing. Prereq., 1st semester MBA core courses. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Social Responsibility](#)

MBAX-6841 (2) Decision Making for Managers

Covers both behavioral/psychological aspects and analytical approaches to making decisions with multiple objectives. The focus is learning to frame decisions that involve multiple stakeholders with multiple objectives and then learning the various techniques used to evaluate the choices. Influence diagrams, decision heuristics using spreadsheets, and decision trees will all be explored with user-friendly decision tree software. Prereqs., MBA core courses. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Management](#)

MBAX-6843 (3) Supply Chain and Operations Analytics

Analyzes key issues related to the design and management of operations and supply chains using quantitative tools such as linear, integer, and non-linear programming, regression, and statistical analysis. Covers important topics such as forecasting, aggregate planning, inventory theory, transportation, risk pooling, production control and scheduling, and facilities location, among others. Uses mathematical modeling, spreadsheet analysis, case studies, and pedagogical simulations to deliver material. Prereqs., MBAC 6031 and 6080. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Operations & Prod Mgmt](#)

MBAX-6844 (2) Operations Management

Producing a quality product or delivering a quality service is a fundamental task for any company or organization. Managing the transformation of inputs (raw materials, labor, capital) into outputs (goods and services) falls under the heading of Operations Management. In most organizations, operations comprise 80 percent of the costs, 80 percent of the personnel, 80 percent of the capital employed --the effective and efficient use of these resources is consequently central to the success of the firm. This course is about using operations to compete and win sustainable competitive advantage in your marketplace. Prerequisites: Restricted to Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Management](#)

MBAX-6845 (3) Social Entrepreneurship in Emerging Markets

Social entrepreneurs adopt business approaches to solving global, social and environmental problems that have not been effectively addressed by government, business or traditional nonprofits. The course provides a framework for student teams to assist social

entrepreneurs in developing countries, helping them achieve their social mission while operating sustainably and with measurable impact. Prereqs., MBAC 6010, 6060, and 6090. Recommended prereq., MBAX 6170. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Social Responsibility](#)

MBAX-6885 (3) Interpreting the Economic Environment

The macroeconomic environment is vitally important to business managers regardless of their area of focus. Most macroeconomic events portend future economic changes that influence business and/or industry. Develops a basic understanding of the macroeconomy and its relationship to an individual business or industry through understanding macroeconomic concepts and data sources, developing a basic model, understanding relevant policy instruments, and integrating this information into the global economy. Prereq., MBAC 6010. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Finance](#)

MBAX-6966 (3) Independent Study-Real Estate

Independent study in the field of real estate. Prerequisites: Restricted to Master of Business Admin (MBAD), MBA with Dual Degree (DMBA), Joint Juris Doctor/MBA (JMBA) or Professional MBA Program (PMBA) majors only.

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Real Estate](#)

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Courses

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Subject **Number**

MCDB

MCDB-1030 (3) Plagues, People, and Microorganisms

Discusses the biology, history, ecology, and social impact of human plagues, including Aids, smallpox, polio, bubonic plague, tuberculosis, leprosy, the impact of the Irish potato blight, and emerging human pathogens. The biology of pathogens and the human immune responses are treated in detail. Discusses the impact of molecular biology on curtailing the impact of diseases. For nonmajors. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-1041 (3) Fundamentals of Human Genetics

Covers the basic principles of genetics, human pedigree analysis, and how genetic diseases affect DNA, RNA, and proteins. Considers implications of this research for medicine and society. For nonmajors. Recommended prereq., good background in high school chemistry and biology. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-1150 (3) Introduction to Cellular and Molecular Biology

Covers biologically important macromolecules and biological processes, together with an introduction to cell structure, function, and physiology. Provides the foundation for advanced MCDB courses to majors, and a rigorous overview of modern biology to nonmajors. MCDB 1151 must be taken concurrently by MCDB and biochemistry majors and prehealth science students. Prereq., high school chemistry and algebra. Coreq., MCDB 1151 for majors. Credit not granted for this course and MCDB 1111. Approved for GT-SC1. Meets MAPS requirement for natural sciences: lab. Approved for arts and science core curriculum: natural science.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-1151 (1) Introduction to Cell and Molecular Biology Lab

Offers one two-hour lab per week designed to acquaint students with research techniques and concepts in molecular and cellular biology. Topics include cell structure, function, physiology, and recombinant DNA. MCDB 1150 must be taken concurrently. Credit not granted for this course and MCDB 1111. Approved for GT-SC1. Meets MAPS requirement for natural sciences: lab. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-1152 (1) Problem Solving Co-Seminar for Introduction to Molecular and Cellular Biology

Uses problem solving and other interactive group work to aid student learning in co-requisite course MCDB 1150. Students will work in small groups on learning and practicing how to solve difficult conceptual problems, as well as using hands-on activities and concept mapping to help learn content. Coreq., MCDB 1150.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-1161 (2) From Dirt to DNA: Phage Genomics Laboratory I

Provides laboratory experience working on a bacteriophage genomics research project. Students will study novel bacteriophage they isolate from the environment. Topics covered include phage biology, bacteria and phage culturing and amplification, DNA isolation, restriction digest analysis, agarose gel electrophoresis, and electron microscopy. Coreq., MCDB 1150 or successful completion of 2 semesters of General Biology AP credit.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-2150 (3) Principles of Genetics

Introduces the behavior of genes and chromosomes in eukaryotic and prokaryotic organisms. Covers three areas: transmission genetics, molecular genetics, and population genetics. Attention is given to genetic mapping, recombinant DNA procedures, and gene expression. MCDB 2151 must be taken by MCDB or biochemistry majors and prehealth science students concurrently or when next offered. Prereqs., MCDB 1150 or 1111 or EBIO 1210 or general biology. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-2151 (1) Principles of Genetics Laboratory

One two-hour lab per week. Provides hands-on experience with principles introduced in MCDB 2150. Topics include mitosis, meiosis, classical genetics, complementation, mutagenesis, DNA replication, natural selection, and evolution. Prereqs., MCDB 1150 and 1151.

Coreq., MCDB 2150. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-2152 (1) Problem Solving Co-Seminars for Genetics

Uses problem solving and other interactive group work to aid student learning in co-requisite course MCDB 2150. Students will work in small groups on learning and practicing how to solve difficult conceptual problems, as well as using hands-on activities and concept mapping to help learn content. Coreq., MCDB 2150.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-2161 (2) From DNA to Genes, Phage Genomics Laboratory II

Provides laboratory experience working on a bacteriophage isolated during the previous semester. Topics include bioinformatics, genome annotation, open reading frame and RNA identification, BLAST analysis, phylogenetics and submission to a genomic database. Prereqs., MCDB 1150 and 1161. Coreq., MCDB 2150.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-2840 (1-3) Lower-Division Independent Study

May be repeated for credit, but only 8 hours of MCDB 2840 plus MCDB 4840 can be counted toward graduation. Students with adequate prerequisites should take MCDB 4840. Prereqs., instructor consent and independent study contract. Coreq., MCDB 1150.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-3135 (3) Molecular Cell Biology I

Examines the central dogma of biology by discussing the most important molecules in cells (DNA, RNA, and protein) and how their synthesis (DNA replication, transcription, RNA processing, and translation) is regulated. Incorporated into the discussion is how recombinant DNA techniques are used to discover and dissect cellular processes, how to design and interpret experiments, and understanding the limits of experiments to draw conclusions. These principles are the foundation for subsequent examination of intracellular mechanisms in MCDB 3145. Prereqs., MCDB 2150 or EBIO 2070. Prereq., or coreq., CHEM 1133. Recommended coreq., MCDB 3140. Credit not granted for this course and MCDB 3120.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-3140 (2) Cell Biology Laboratory

One four-hour lab per week. Provides experience with and exposure to modern cell biology laboratory techniques. Topics include microscopy, immunocytochemistry, Western blotting, Southern blotting, and flow cytometry. This course does not use vertebrate animals. Coreq., MCDB 3135 or 3145.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-3145 (3) Molecular Cell Biology II

Examines intracellular mechanisms, including transport of ions and small molecules across membranes; protein targeting to organelles; membrane trafficking between organelles; signal transduction; the cytoskeleton; and the cell cycle. Analysis of these activities is from the experimental perspective established in MCDB 3135. Prereq., MCDB 3135. Recommended prereq or coreq., MCDB 3140 concurrent with either 3135 or 3145. Students may not receive credit for MCDB 3145 and 3500.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-3150 (3) Biology of the Cancer Cell

Highlights dimensions of the cancer problem; cancer as a genetic/cellular disease; chemicals, viruses, and radiation as causes of cancer; cancer and diet; cancer epidemiology; cancer risk factors; proto-oncogenes, oncogenes, and cancer suppressor genes; and prevention of cancer. Prereq., MCDB 2150 or EBIO 2070, or instructor consent. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-3280 (3) Molecular Cell Physiology

Analyzes cellular mechanisms from a molecular perspective. Examines molecules as machines that are the basis of cellular mechanisms. Uses animal systems' physiology as examples. Prereqs., MCDB 3120 and CHEM 1133.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-3330 (3) Evolution and Creationism

Intensive lecture/discussion course on the interrelationships among science, religion, and social policy. Includes historical and scientific development of evolution theory, social Darwinism/sociobiology, and the public perception of science. Prereq., MCDB 1111 or 1150 or instructor consent. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-3350 (3) Fertility, Sterility, and Early Mammalian Development

Describes the production of germ cells, ovulation, fertilization, reproductive cycles, controls of reproduction, early development of the embryo, methods of contraception, and causes and treatments of sterility. Recommended for students planning careers in the health sciences. Prereq., MCDB 1150, EBIO 1210, or instructor consent.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-3650 (3) The Brain - From Molecules to Behavior

Examines the molecular basis of the brain's role in thought, action, and consciousness by exploring issues such as relationship of cognition and localized brain function, sensory systems and their role in cognition, learning and memory, and behavioral neurochemistry. Prereq., MCDB 1150 and 2150 or equivalent.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4111 (3) Experimental Design and Research in Cell and Molecular Biology

Learning molecular and cell biology experimental design and approaches through independent research projects. Students, working in pairs, will explore the research process and gain extensive first-hand experience in: hypothesis formation; experimental design; solution preparation and experimental methodology; proposal presentation and defense (oral and written); formal presentation of results and conclusions (oral and written in a publication-style format); the publication process; critical reading and evaluation of primary scientific literature. Prereq., MCDB 1150 or equivalent and instructor consent. Recommended coreq., MCDB 3135 or 3500.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4201 (3) From Bench to Bedside: The Role of Science in Medicine

Demonstrates the breadth of research in the life sciences and how such research (not just in medical schools) can lead to medical applications. Lecturers from life sciences, the medical school and biotechnology, discuss drug development and the transfer of research into the clinical arena. Students also prepare a paper and presentation on the development of a commercial drug. Prereqs., MCDB 1150, 1151, or 1111, and MCDB 2150, 2151, 3140, and 3120 or 3145.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4202 (3) The Python Project

Studies how python hearts grow after they consume a meal. Understanding the molecular processes of growth and regression in the python heart could lead to development of therapeutics for heart disease. Students work in groups in the laboratory and generate novel data by using modern molecular biology and bioinformatic techniques to clone and sequence candidate molecules of the python genome. May be repeated once. Prereqs., MCDB 1150 and 2150. Recommended prereqs., MCDB 3120 and 3500, or MCDB 3135 and 3145, and CHEM 4711 and 4731.

MCDB-4234 (3) Research Methods

Presents a rigorous and pedagogically coherent introduction into the experimental process used to collect data, formulate hypotheses, and answer scientific questions in general, and biological questions in particular. Includes a detailed consideration of the elements of experimental design, data collection and analysis, and the interpretation of results in the context of effective science teaching. Part of the CU Teach course sequence for teacher certification in science and mathematics. Prereqs., completion of freshman/sophomore major requirements, MCDB 1150 or 1111, MCDB 2150, 3120/3140, or 3135/3145, or instructor consent. Restricted to students enrolled in School of Education. Prerequisites: Restricted to MCDB majors or School of Education undergraduate students only.

MCDB-4300 (3) Immunology

Emphasizes cellular and molecular mechanisms by which organisms protect themselves from pathogens and the experimental basis for our understanding of these processes. Discusses development, function, and malfunction of t-cells, b-cells and other components of the immune system, focusing on the human immune system. Prereqs., MCDB 3120 and 3500, or MCDB 3135 and 3145. Same as MCDB 5301.

MCDB-4310 (3) Microbial Genetics and Physiology

Examines the physiology and genetics of bacteria, Archaea and viruses. Particular emphasis will be on metabolism, regulation of gene expression and protein function, mechanisms of interactions with and manipulation of the environment, and evolution in response to environmental pressures. Prereqs., MCDB 2150, 3135 and 3145 or instructor consent. Recommended prereq. or coreq., CHEM 4611. Same as MCDB 5310.



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MCDB

MCDB-4314(3) Algorithms for Molecular Biology

Surveys combinatorial algorithms used to understand DNA, RNA, and proteins. Introduces students to methods used to process genomic data. Topics covered include a review of algorithms and molecular biology, sequence analysis, RNA and protein structure analysis, and comparative genomics. Students will get hands-on experience processing recent genomic data. Prereqs., CSCI 2270 and CSCI 3104, or CHEM 4711, or MCDB 3135 or 3500, or IPHY 4200. Same as CSCI 4314 and MCDB 5314.

[College of Arts & Sciences](#)
[Molecular, Cellular, & Development Biology](#)

MCDB-4330 (3) Bacterial Disease Mechanisms

Explores molecular and cellular interactions between bacteria and their eukaryotic hosts that precipitate disease. Activities include critical reading of review and research articles, preparation of homework assignments based on readings, and student presentations of assigned papers. Prereqs., MCDB 2150, 3120 and 3500, or 3135 and 3145. Same as MCDB 5330.

[College of Arts & Sciences](#)
[Molecular, Cellular, & Development Biology](#)

MCDB-4350 (3) Microbial Diversity and the Biosphere

Provides a molecular phylogeny-based perspective on microbial diversity and the interactions between organisms that result in the biosphere. Provides overview of recent methods and findings in microbial ecology, as well as computer-based workshop in molecular phylogeny. Prereqs., CHEM 1133 or 1371, general biology, or instructor consent. Recommended prereqs., EBIO 3400 and/or CHEM 3311. Same as MCDB 5350.

[College of Arts & Sciences](#)
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MCDB-4361 (3) Evolution and Development

Relates how recent discoveries in the molecular mechanisms of development are shaping our understanding of animal evolution. The course will review basic principles of molecular developmental biology and apply these concepts to critically discuss current research in the field of Evo-Devo (evolution and development). Prereqs., MCDB 3120 and 3500, or MCDB 3135 and 3145. Same as MCDB 5361.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4410 (3) Human Molecular Genetics

Studies the human organism as a genetic system, including effect of mutation on protein structure and function, biochemical basis of human genetic disease, polymorphic gene loci, gene mapping and identification, gene cloning and characterization, and impact of human genetics on medicine and society. Prereq., MCDB 3500 or 3135.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4422 (3) Molecular Biology of Free Radicals: Role(s) in Oxidative Stress, Signaling, Disease, Aging

Examines how free radicals are formed in biological systems and their roles in oxidative stress, cell signalling, aging, and disease. Emphasis will be placed on the recent literature. Prereqs., MCDB 3135 and 3145. Recommended prereq., CHEM 3311.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4425 (3) Cellular Stress Responses: Molecular Mechanisms, Physiology, and Human Diseases

In this critical thinking course, students will apply their knowledge of basic biology to exploring several of the most exciting topics in biomedicine including protein folding and stress responses, nutrient sensing and balance, and signal transduction across membranes. Emphasis will be placed upon human physiology and associated human diseases including Alzheimer's disease, diabetes, and cardiovascular disease. Prereq., MCDB 3120 or 3135 or 3145 or 3500 or instructor consent. MCDB 4425 and 5425 are the same course.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4426 (3) Cell Signaling and Developmental Regulation

Introduces several cell signaling processes and their biological functions. Students read and analyze original research articles to learn the thinking processes of scientific research. Writing assignments and oral presentations are required. Prereqs., MCDB 3120 and 3500 or MCDB 3135 and 3145, CHEM 4711, or instructor consent. Same as MCDB 5426.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4427 (3) Biology of the Visual System

Explores the neurobiology, cell biology, genetics and developmental biology of the visual system. Discusses neurodegenerative and vascular diseases that lead to blindness. Students read and analyze original research articles to train scientific reasoning. Involves student-organized presentations and classroom discussion. Prereqs., MCDB 3135 and 3145 or instructor consent required. Same as MCDB 5427.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4441 (4) Animal Developmental Diversity

Surveys development in a range of vertebrate and invertebrate systems to reconstruct the common bilaterian ancestor, and elucidate the developmental genetic changes underlying animal diversification. Lab focuses on vertebrate embryos and explores key methods in evolutionary developmental biology including in situ hybridization, embryo microinjection, and transgenesis. Prereqs., EBIO 1210, 1220 and 2070, or MCDB 1150 and 2150. EBIO 4440, EBIO 5440, MCDB 4441, and MCDB 5441 are all the same course.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4444 (3) Cellular Basis of Disease

Explores the cellular basis of disease. Discusses diseases arising from defects in intracellular targeting, cytoskeletal function, intracellular signaling, genomic instability, gene regulation, cell proliferation, and cell death. Involves student-organized presentations and classroom discussion. Prereq., MCDB 2150, MCDB 3120 and 3500 or MCDB 3135 and 3145.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4471 (3) Mechanisms of Gene Regulation in Eukaryotes

Focuses on manifestations of regulated gene expression. Studies gene regulation at multiple steps, including transcription, RNA processing, and translation. Is based on critical analysis of primary research papers. Written assignments and oral presentations are required. Prereq., MCDB 3500 or 3135 or instructor consent. Same as MCDB 5471. Credit not granted for this course and MCDB 4470/5470.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4501 (3) Structural Methods for Biological Macromolecules

This course teaches fundamental knowledge about protein structures, protein interactions and protein folding. It will discuss in detail the most common methods on how proteins and macromolecular complexes are studied, such as X-ray crystallography, NMR-spectroscopy, and electron microscopy. The course will offer about 50 percent direct teaching, 40 percent discussion of papers in a journal club style,

and 10 percent hands-on practicals on software packages relevant to structural biology. Prereqs., MCDB 3120 and 3500 or MCDB 3135 and 3145.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4520 (3) Bioinformatics and Genomics

Computational and experimental methods in bioinformatics and genomics, and how these methods provide insights into protein structure and function, molecular evolution, biological diversity, cell biology, and human disease. Topics include database searching, multiple sequence alignment, molecular phylogeny, microarrays, proteomics, and pharmacogenomics. Prereqs., CHEM 4711, and CHEM 4731 or MCDB 3135 or 3500. Same as MCDB 5520.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4550 (3) Cells, Molecules and Tissues: A Biophysical Approach

Focuses on the biophysics governing the structure/function of enzymes, cells, extra-cellular matrix, and tissue. Synthesizes ideas from molecular biology, physics, and biochemistry, emphasizing how low Reynolds number physics, not Newtonian physics, is relevant to life inside a cell. Prereq., CHEM 1133 or 1371, PHYS 2010, 2020, MCDB 3135 or 3145 or instructors consent. Recommended Prereqs., MATH 1300 and/or CHEM 3311. Same as MCDB 5550.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4615 (3) Biology of Stem Cells

Stem cells have received considerable notice in both the scientific and social arena. The course will examine the stem cell concept by a critical examination of the primary scientific literature. Topics will include pluripotency and plasticity, environment, technology, self-renewal, transdifferentiation, molecular signature, epigenetic programming and stem cell versus cancer cell. Prereqs., MCDB 2150, and MCDB 3120 and 3500, or MCDB 3135 and 3145, or instructor consent. Same as MCDB 5615.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4621 (3) Genome Databases: Mining and Management

Develops essential skills for performing genomic analyses, with focus on developing practical research tools. Introduces human genome and microbiome projects, Python/Sql scripting, accessing and understanding genomic data, sequence alignment and search, evolutionary models, expression data, biological networks, and macromolecular structure. Prereqs., MCDB 3135 or 3500, CSCI 3104 or CHEM 4711; coreq., CSCI 2270. Same as MCDB 5621. Credit not granted for this course and CHEM 4621 or CSCI 4317.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4650 (3) Developmental Biology

Explores the development of invertebrate and vertebrate organisms, emphasizing cellular, molecular, and genetic mechanisms. Focuses on conceptual understanding and experimental approaches to topics such as embryology, developmental control of gene expression in eukaryotic cells, mechanisms of differentiation and morphogenesis and developmental genetics. Prereqs., MCDB 3135 and 3145, or instructor consent.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4680 (3) Mechanisms of Aging

Studies aging as a developmental process emphasizing genetic, cellular, and molecular mechanisms. Prereqs., MCDB 3120 and 3500, or MCDB 3135 and 3145. Same as MCDB 5680.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4750 (3) Animal Virology

Encompasses the structure and replication of both lytic and transforming animal viruses. Emphasizes diversity of naturally occurring genomic structures and the resulting strategies of infection as well as the impact of viral epidemics on society. Includes critical analysis of primary research papers. Prereq., MCDB 3135 or 3500, or instructor consent.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4777 (3) Molecular Neurobiology

Introduces the functional anatomy of the nervous system, and explores current knowledge regarding the molecular and genetic basis of the development and function of the nervous system. Studies recent insights into the molecular basis of neurodegenerative diseases, in the last portion of the course. Prereqs., MCDB 3120 and 3500, or MCDB 3135 and 3145, or equivalent.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4790 (3) Experimental Embryology

Embryology is studied by considering experiments relevant to specific topics of early animal development. Emphasizes reading, interpretation, and discussion of research articles. Prereqs., MCDB 3120 or 3145, and EPOB 3650 or MCDB 3135 or 3500.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4810 (3) Insane in the Membrane: The Biology and Biophysics of the Membrane

Studies the biology and physics of the biomembrane. Topics include structure and mechanism of membrane proteins; membrane biogenesis; membrane protein folding and stability; membrane homeostasis; mechanisms of membrane fusion and fission; lipid trafficking. Prereq., CHEM 4711 or instructor consent. Same as MCDB 5810.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4811 (3-4) Teaching and Learning Biology

Provides an introduction to recent research into student learning on the conceptual foundations of modern biology, together with pedagogical methods associated with effective instruction and its valuation. Students will be involved in active research into conceptual and practical issues involved in biology education, methods to discover student preconceptions, and the design, testing and evaluation of various instructional interventions. Prereqs., MCDB 1111 or 1150, 2150 and MCDB 3120 or 3145. Same as MCDB 5811 and EDUC 4811.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-4840 (1-6) Upper-Division Independent Study

May be repeated for credit, but only 8 hours of MCDB 2840 plus MCDB 4840 can be counted toward graduation. Prereqs., MCDB 2150, instructor consent, and independent study contract.

College of Arts & Sciences Molecular, Cellular, & Development Biology

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MCDB

MCDB-4980 (3) Honors Research

Provides faculty-supervised research for students who have been approved by the departmental honors committee. Normally taken during the semester before completion of the honors thesis. Prereqs., MCDB 4840 or comparable research experience, and a GPA of 3.20 or better.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-4990 (3) Honors Thesis

Involves the preparation and defense of an honors thesis, based on faculty-supervised original research, including final phases of the research project. Prereqs., MCDB 4840, 4980, or comparable research experience, a GPA of 3.30 or better, and approval by the MCDB honors committee.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-5210 (3) Cell Structure and Function (Lecture and Discussion)

Instructor consent required.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-5220 (3) Molecular Genetics (Methods and Logic)

Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5230 (3) Gene Expression (Lecture and Discussion)

Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5250 (3) Topics in Developmental Genetics (Methods and Logic)

Instructor consent required.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5301 (3) Immunology

Same as MCDB 4300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5310 (3) Microbial Genetics and Physiology

Examines the physiology and genetics of bacteria, Archaea and viruses. Particular emphasis will be on metabolism, regulation of gene expression and protein function, mechanisms of interactions with and manipulation of the environment, and evolution in response to environmental pressures. Same as MCDB 4310.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5314 (3) Algorithms for Molecular Biology

Same as MCDB 4314 and CSCI 5314. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5330 (3) Bacterial Disease Mechanisms

Same as MCDB 4330.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5350 (3) Microbial Diversity and the Biosphere

Same as MCDB 4350. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5361 (3) Evolution and Development

Same as MCDB 4361.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5425 (3) Cellular Stress Responses: Molecular Mechanisms, Physiology, and Human Diseases

In this critical thinking course, students will apply their knowledge of basic biology to exploring several of the most exciting topics in biomedicine including protein folding and stress responses, nutrient sensing and balance, and signal transduction across membranes. Emphasis will be placed upon human physiology and associated human diseases including Alzheimer's disease, diabetes, and cardiovascular disease. Prereq., MCDB 3120 or 3135 or 3145 or 3500 or instructor consent. MCDB 4425 and 5425 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5426 (3) Cell Signaling and Developmental Regulation

Same as MCDB 4426.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5427 (3) Biology of the Visual System

Explores the neurobiology, cell biology, genetics and developmental biology of the visual system. Discusses neurodegenerative and vascular diseases that lead to blindness. Students read and analyze original research articles to train scientific reasoning. Involves student-organized presentations and classroom discussion. Prereqs., MCDB 3135 and 3145 or instructor consent required. Same as MCDB 4427.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5441 (4) Animal Developmental Diversity

Surveys development in a range of vertebrate and invertebrate systems to reconstruct the common bilatorian ancestor, and elucidate the developmental genetic changes underlying animal diversification. Lab focuses on vertebrate embryos and explores key methods in evolutionary developmental biology including in situ hybridization, embryo microinjection, and transgenesis. Prereqs., EBIO 1210, 1220 and 2070, or MCDB 1150 and 2150. EBIO 4440, EBIO 5440, MCDB 4441, and MCDB 5441 are all the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5471 (3) Mechanisms of Gene Regulation in Eukaryotes

Same as MCDB 4471.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5520 (3) Bioinformatics and Genomics

Same as MCDB 4520. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5550 (3) Cells, Molecules and Tissues: A Biophysical Approach

Same as MCDB 4550.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5615 (3) Biology of Stem Cells

Same as MCDB 4615. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5621 (3) Genome Databases: Mining and Management

Same as MCDB 4621. Credit not granted for this course and CSCI 5317 or CHEM 5621.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5650 (1) Teaching and Learning in Undergraduate Science Courses

Discusses recent research on how students learn and applications to the teaching of undergraduate science courses. Conducted as an interactive workshop, in which active-engagement in learning approaches are modeled and experienced by participants. Open to undergraduate and graduate students. May be used to fulfill the pedagogical training requirement for undergraduate Learning Assistants in upper division science courses. Post-doctoral and faculty auditors are welcome to participate as regular auditors.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5680 (3) Mechanisms of Aging

Same as MCDB 4680. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5776 (1) Scientific Ethics

Prereq., CHEM 5771 or MCDB 5230 taken concurrently and instructor consent. Same as CHEM 5776.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-5777 (3) Molecular Neurobiology

Same as MCDB 4777.

College of Arts & Sciences Molecular, Cellular, & Development Biology

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MCDB

MCDB-5811 (3-4) Teaching and Learning Biology

Same as MCDB 4811. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-6000 (3) Introduction to Laboratory Methods

Introduces methodology and techniques used in biological research. Designed as a tutorial between a few students and one faculty member. Students are expected to read original research papers, discuss findings, and to plan and execute experiments in selected areas. Open only to MCDB graduate students. May be repeated up to 9 total credit hours. Prerequisites: Restricted to MCDB graduate students only.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-6336 (1) Transcription and RNA Processing

Study of recent publications in transcription and RNA processing fields. Students present and discuss recent publications. Goals are that the student will improve critical analysis of data and will learn techniques relevant to the field. Students will keep up-to-date with current literature, will lead discussions of topic of interest, and will learn good presentation skills. Prereq., MCDB 5210, 5230 or instructor consent.

[College of Arts & Sciences](#) [Molecular, Cellular, & Development Biology](#)

MCDB-6337 (1) Cell Cycle Research

Cell cycle regulation is a major biological issue relevant to a number of disease states, including cancer. Surveys the current literature in

the cell cycle field. Students present current publications; class participation in discussion is expected. Prereqs., MCDB 5210 and 5230.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-6339 (1) Microbiology Supergroup

Present and receive feedback on your in-progress microbiology research. Learn about and discuss research at CU that is microbiological but outside of your specialty. Participate in journal clubs on microbial physiology. May be repeated up to 3 total credit hours.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-6440 (1-3) Special Topics in MCD Biology

Acquaints students with various topics not normally covered in the curriculum. Offered intermittently or upon student demand, and often presented by visiting professors. May be repeated up to 4 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-6621 (1) Special Topics in RNA

Reviews and evaluates recent scientific literature in the field of RNA chemistry and biology, including topics in structure, catalysis, bioinformatic approaches, and control of gene expression. Primarily for graduate level presentation of special topics by students and research staff. May be repeated up to 5 total credit hours. Prereq., graduate standing or instructor consent. Same as CHEM 6621.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-6940 (1) Master's Degree Candidate

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-6950 (1-6) Master's Thesis

Students seeking a master's degree should consult a departmental advisor. Plan I or Plan II is offered.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-7840 (1-6) Graduate Independent Study

Instructor consent and independent study contract required. May be repeated up to 7 total credit hours.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-7910 (1) Seminar Practicum

Designed for graduate students to give oral presentations on their thesis research, field questions, respond to critiques, and present background information. May be repeated up to 3 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

MCDB-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Molecular, Cellular, & Development Biology

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MCEN

MCEN-1000 (1) Freshmen Seminar

Lect. and lab. Introduces facets of mechanical engineering including history of the profession, mechanical engineering curriculum, industries in which mechanical engineers practice, and expectations and tools for academic success. Students participate in hands-on experiences, visit industry, make oral presentations, meet faculty and practicing professionals, and develop goal statements. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Math](#)

MCEN-1025 (4) Computer-Aided Design and Fabrication

Introduces engineering design graphics. Includes learning a contemporary computer-aided design (CAD) software application and relevant engineering graphics concepts, such as orthographic projection, sections, engineering drawing practices, geometric dimensioning and tolerancing, and an introduction to manufacturing methods. Entails a final design project using rapid prototyping. Restricted to MCEN majors. Prerequisites: Restricted to Mechanical Engineering or Engineering Physics majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Design](#)

MCEN-1208 (1-4) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 1208-1298. Prereq., instructor consent. Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only. Prerequisites: Restricted to students with 0-26 units (Freshmen) Mechanical Engineering majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

MCEN-2023 (3) Statics and Structures

Covers statics of particles, equivalent force systems, rigid bodies, equilibrium of rigid bodies in two and three dimensions, analysis of truss and frame structures, uniaxially-loaded members, deformation and stress, distributed force systems, friction. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., APPM 1360. Prerequisites: Requires prerequisite course of APPM 1360 or MATH 2300. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or Civil & Envrn Engr Concurrent Degree majors or Mechanical Engr Concurrent Degree majors.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-2024 (3) Materials Science

Structure, properties, and processing of metallic, polymeric, ceramic, and composite materials. Perfect and imperfect solids; phase equilibria; transformation kinetics; mechanical behavior; material degradation. Approach incorporates both materials science and materials engineering components. Prereqs., CHEN 1211, CHEM 1221 and PHYS 1110. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors or Civil & Environmental Engineering Concurrent Degree or Mechanical Engineering Concurrent Degree majors

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-2043 (3) Dynamics

Covers dynamic behavior of particle systems and rigid bodies; 2-D and 3-D kinematics and kinetics; impulse, momentum, potential, and kinetic energy; and work, collision, and vibration. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Prereq., MCEN 2023. Formerly MCEN 3043. Prerequisites: Requires prerequisite courses of MCEN 2023 (or CVEN 2121 or GEEN 3851). Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-2063 (3) Mechanics of Solids

Covers shear force and bending moment, torsion, stresses in beams, deflection of beams, matrix analysis of frame structures, analysis of stress and strain in 2-D and 3-D (field equations, transformations), energy methods, stress concentrations, and columns. Lectures and homework assignments involve computer work and hands-on laboratory work in the ITLL, documented by written reports. Credit not granted for this course and CVEN 3161. Prerequisites: Requires prerequisite courses of MCEN 2023 or CVEN 2121 or GEEN 3851. Restricted to students with 27-180 credits (Sophomores/Juniors/Seniors) MCEN or EVEN majors or concurrent degree majors in CVEN&EVEN or MCEN.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-3012 (3) Thermodynamics

Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions and cycles. Prereq., APPM 2350. Same as GEEN 3852. Prerequisites: Requires prerequisite course of APPM 2350 or MATH 2400. Restricted to students with 57-180 credits (Junior/Senior) MCEN or EVEN majors or concurrent degree majors in CVEN/EVEN or MCEN.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-3017 (3) Circuits and Electronics

Introductory course covers analysis of electric circuits by use of Ohm's law, network reduction, node and loop analysis, Thevenin's and Norton's theorems, DC and AC signals, transient response of simple circuits, transfer functions, basic diode and transistor circuits, and operational amplifiers. Prereqs., APPM 2360 and PHYS 1140. Same as ECEN 3010. Prerequisites: Restricted to students in the MSC/CU-Boulder Mechanical Engineering Partnership Program only.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-3021 (3) Fluid Mechanics

Examines fundamentals of fluid flow with application to engineering problems. Explores fluid statics and kinematics; conservation equations for mass, momentum, and energy; Bernoulli and Euler equations; potential flow; laminar and turbulent viscous boundary layers; laminar and turbulent pipe flow; and compressible fluid flow. Prereqs., APPM 2360 and MCEN 2023. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Mechanical Engineering (MCEN or MCMR) or Environmental Engineering (EVEN) majors or Civil/Environmental Engineering or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-3022 (3) Heat Transfer

Studies fundamentals of heat transfer by conduction, convection, and radiation. Provides applications to heat exchangers, solar panels, and boiling and mass transfer. Also covers numerical methods for solving heat transfer problems and design of engineering equipment involving heat transfer processes. Prerequisites: Requires prereq courses of MCEN 3012 (or GEEN 3852, or CHEN 3320, or ASEN 2002, or AREN 2110) & MCEN 3021 (or GEEN 3853, or CHEN 3200, or CVEN 3313) & MCEN 3030. Restricted to students w/ 57-180 credits (Jr or Sr) MCEN or EVEN majors.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-3025 (3) Component Design

Application of mechanics and materials science to the detailed design of various machine elements including shafts bearings, gears, brakes, springs, and fasteners. Emphasizes application and open-ended design problems. Prereq., MCEN 2063. Prerequisites: Requires pre-requisite course of MCEN 2063 (or CVEN 3161, or ASEN 3112).

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-3030 (3) Computational Methods

Studies fundamental numerical techniques for the solution of commonly encountered engineering problems. Includes methods for linear and nonlinear algebraic equations, data analysis, numerical differentiation and integration, ordinary and partial differential equations. Prereqs., GEEN 1300 and APPM 2360, or equivalent, including a working knowledge of Matlab. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering, Mechanical (MCEN or MCMR) or Environmental Engineering (EVEN) or

Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Mechanical Engineering Math

MCEN-3032 (3) Thermodynamics 2

Offers advanced topics and applications, including thermodynamics of state, entropy and probability, thermodynamic cycles, and reacting and nonreacting mixtures. Provides application to engines and power generation by conventional and alternative energy technologies. Most assignments are design oriented. Prereqs., MCEN 3012 and 3021. Prerequisites: Requires prerequisite course of MCEN 3021 (or CHEN 3200 or CVEN 3313 or GEEN 3853) and MCEN 3012 (or AREN 2110 or GEEN 3852). Restricted to students with 57-180 credits (Junior/Senior) Mechanical Engineering or Environmental Engineering majors only.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-3037 (2) Data Analysis

Learn to plan and carry out experiments. Coverage includes measurement fundamentals, basic statistical concepts, and uncertainty analysis. Use of statistics for the purpose of analyzing data, including regression, correlation, hypothesis testing, classification, time series analysis, and design of experiments. Prereq., APPM 2360. Prerequisites: Restricted to graduate students in College of Engineering and Applied Science or to students with 57-180 credits (Junior or Senior) or Mechanical Engineering Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-3208 (1-3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 3208-3298. Instructor consent required. Prerequisites: Restricted to Mechanical (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

College of Engineering & Applied Science Mechanical Engineering Special Topics

MCEN-4026 (3) Manufacturing Processes and Systems

Engineering-science design course that examines manufacturing processes for metals, polymers, and composites as well as manufacturing systems that integrate these processes. Lecture topics include: forming, machining, joining, assembling, process integration, computer-aided manufacturing, and manufacturing system engineering. Prereq., MCEN 2024. Prerequisites: Requires prerequisite course of MCEN 2024. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science Mechanical Engineering Manufacturing and Systems

MCEN-4037 (2) Measurements Lab

Carry out several experiments designed to teach methods of experimentation and data analysis. Experiments taken from solid mechanics, fluid mechanics, thermal science, and materials science. Emphasizes planning an experiment, applying sound procedures, keeping

proper records, and communicating results orally and in written reports. Gives students the opportunity to participate in projects that extend over two or more weeks. Prerequisites: Requires prerequisites of ECEN3010 & MCEN2063 (or CVEN3161 or ASEN3112) & MCEN3037 (or APPM4520 or 4570 or CVEN3227 or CHEN3010) & WRTG3030 (or WTRG3035 or HUEN3100 or PHYS3050). Restricted to MCEN majors w/57-180 credits (juniors/seniors).

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-4043 (3) System Dynamics

Covers linear dynamic systems and mathematical tools for understanding them, input-output relationships, modeling templates, complex variables, Laplace transform, time-harmonic forcing and response, Fourier series and discrete Fourier transform, and coupled systems. Prereqs., ECEN 3010 and MCEN 2043 or 3043. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-4045 (3) Mechanical Engineering Design Project 1

First part of a two-course capstone design experience in mechanical engineering. Covers problem definition, determining design requirements, alternative design concepts, engineering analysis, proof-of-concept prototype, and CAD drawings. Students make several oral design reviews, a final design presentation, and prepare a written report. Coreq., MCEN 4026. Prerequisites: Requires prerequisite courses of MCEN 3025 & 3032 & 3022 (or CHEN 3210) and GEEN 1400 (or ECEN 1400 or GEEN 3400). Restricted to students with 87-180 credits (Senior) Mechanical Engineering majors or Mechanical Engineering Concurrent Degree majors only.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-4047 (2) Measurements 2

Four hours of lab per week. Student teams perform laboratory projects that extend over several weeks. Takes experiments from solid mechanics, acoustics, electronics, and other ME-related disciplines. Emphasizes planning an experiment, applying sound experimental procedures, using statistics, keeping proper records, and communicating results orally, on posters, and in written documents. Prerequisites: Requires prerequisite courses of MCEN 2024 and MCEN 4037. Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-4085 (4) Mechanical Engineering Design Project 2

Second part of a two-course capstone design experience in mechanical engineering. Includes refinement of prototype, design optimization, fabrication, testing, and evaluation. Students orally present the final design and prepare a written report and operation manual for the product. Prereq., MCEN 4026 and 4045. Prerequisites: Requires prerequisite courses of MCEN 4026 and MCEN 4045. Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-4115 (3) Mechatronics and Robotics I

Focuses on design and construction of microprocessor-controlled electro-mechanical systems. Lectures review critical circuit topics, introduce microprocessor architecture and programming, discuss sensor and actuator component selection, robotic systems, and design strategies for complex, multi-system devices. Lab work reinforces lectures and allows hands-on experience with robotic design. Students must design and build an autonomous robotic device. Project expenses may be incurred (\$50 maximum). Prereqs., ECEN 3010 or equivalent and GEEN 1300 or equivalent. Same as MCEN 5115. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) majors or Mechanical Engineering Concurrent Degree (C-MCEN) majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Design](#)

MCEN-4117 (3) Anatomy and Physiology for Engineers

Understanding human physiological function from an engineering, specifically mechanical engineering, viewpoint. Introduction to human anatomy and physiology with a focus on learning fundamental concepts and applying engineering (mass transfer, fluid dynamics, mechanics, modeling) analysis. Same as MCEN 5117. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) College of Engineering majors only.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Miscellaneous](#)

MCEN-4120 (3) Engineering Statistics

Focuses on probability and statistics, emphasizing engineering applications. Studies frequency distributions; statistical hypotheses and estimation; nonparametric, linear regression, and correlation; nonlinear and multiple regression; analysis of variance; and quality control. Prereq., APPM 2360.

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MCEN

MCEN-4123 (3) Vibration Analysis

Highlights free and forced vibration of discrete and continuous systems. Examines Lagrange's equation, Fourier series, Laplace transforms, and matrix and computational methods. Applies knowledge to practical engineering problems. Prereq., ASEN 3112 or MCEN 3030. MCEN 4123 and ASEN 4123 are the same course. Prerequisites: Restricted to College of Engineering majors only.

[College of Engineering & Applied Science](#)
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MCEN-4124 (3) Mechanical Behavior of Materials

Addresses the relationship between material structure and the fundamental processes of deformation, yield, and fracture. Examines elements of elasticity theory, introduction to plasticity, and formulation of failure criteria. Studies basic deformation processes in terms of dislocation mechanics and macroscopic mechanical behavior. Takes into consideration the influence of compositional and processing strengthening mechanisms on mechanical properties. Prereqs., MCEN 2024 and 2063.

[College of Engineering & Applied Science](#)
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[Materials](#)

MCEN-4128 (3) Special Topics

Prereq., MCEN 4025 or equivalent.

[College of Engineering & Applied Science](#)
[Mechanical Engineering](#)
[Special Topics](#)

MCEN-4131 (3) Air Pollution Control Engineering

Introduces air quality regulations, meteorology, and modeling; methods for controlling major classes of air pollutants, including particulate

matter and oxides of sulfur and nitrogen; and control technology for industrial sources and motor vehicles. Requires interdisciplinary design projects. Prereq., MCEN 3021 or equivalent. Same as MCEN 5131. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-4133 (3) Biomechanics of Solids

Considers the mechanical behavior of biological materials and emphasizes the relationship between structural characteristics and macroscopic behavior. Focuses first on the mechanical behavior of microscopic protein and polysaccharide elements and then on larger scale soft and hard tissue structures. Prereqs., MCEN 2024, 2063, and 3021 or equivalent. Prerequisites: Restricted to College of Engineering and Applied Science graduate students or senior BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-4135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 4135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-4141 (3) Indoor Air Pollution

Air pollutants cause material damage and adversely affect human health. People spend over 80 per cent of their time indoors; often, air pollutant levels are higher indoors than outdoors. In this course we study air pollution in indoor environments and design appropriate control technologies. Prereqs., MCEN3021 and 3022. Same as MCEN 5141. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-4151 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-4152 (3) Introduction to Combustion

Description of the mechanisms by which fuel and oxidizers are converted into combustion products. Application to practical combustion devices such as Otto, Diesel, gas turbine, and power plant combustion systems. Consideration of combustion-generated air pollution, fire safety, and combustion efficiency. Prereq., MCEN 3012. Recommended prereqs., MCEN 3021 and 3022. Same as MCEN 5152.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-4162 (3) Energy Conversion

Examines common energy-conversion methods and devices. Topics include power-cycle thermodynamics, turbocompressor and expander processes, combustion systems, and applications and limitations of direct energy-conversion systems. Prereq., MCEN 3012.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-4173 (3) Finite Element Analysis

Introductory course covering the theory behind and applications of the finite element method as a general and powerful tool to model a variety of phenomena in mechanical engineering. Applications include structural mechanics, mechanics of elastic continua, and heat conduction. Prereq., MCEN 2023 and 2063, or equivalents. Same as MCEN 5173. Prerequisites: Restricted to Mechanical (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree majors.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-4174 (3) Failure of Engineering Materials

Examines the failure of materials used in engineering design through a series of real world case studies. Example failure modes considered include overload, fatigue, creep, and corrosion. Example case studies include failure of aircraft, mountaineering ropes, weight training frames, and toilets. Prereqs., MCEN 2024 and 2063. Same as MCEN 5174.

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-4183 (3) Mechanics of Composite Materials

Introduces various kinds of composite materials, composite fabrication techniques, the physical and mechanical behavior of composites, and analytical and experimental methodologies. Prereqs., MCEN 2024 and 2063, or equivalents. Same as MCEN 5183.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-4208 (3) Special Topics in Mechanical Engineering

Subject matter to be selected from topics of current interest. Credit to be arranged. Numbered MCEN 4208-4298. Prereq., instructor consent.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-4228 (1-4) Special Topics

May be repeated up to 15 credit hours. Prereqs., MCEN 2024 and 2063. Same as MCEN 5228. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN) or Environmental Engineering (EVEN) majors only.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-4278 (3) Special Topics

Same as MCEN 5268.

College of Engineering & Applied Science Mechanical Engineering Special Topics

MCEN-4848 (1-6) Independent Study

Subjects arranged in consultation with undergraduate advisor to fit the needs of the particular student. Numbered MCEN 4848-4898. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Mechanical Engineering (MCEN or MCMR) majors or students with a plan of Mechanical Engineering Concurrent Degree.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5020 (3) Methods of Engineering Analysis 1

Studies selected topics from linear algebra, ordinary differential equations, and Fourier series. Assigns computer exercises. Correlates with analysis topics in other mechanical engineering graduate courses, and emphasizes applications. Prereq., APPM 2360 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Math

MCEN-5021 (3) Introduction to Fluid Dynamics

Focuses on physical properties of gases and liquids, and kinematics of flow fields. Analyzes stress; viscous, heat-conducting Newtonian fluids; and capillary effects and surface-tension-driven flow. Other topics include vorticity and circulation, ideal fluid flow theory in two and three dimensions, Schwartz-Christoffel transformations, free streamline theory, and internal and free-surface waves. Coreq., MCEN 5020 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS

Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-5022 (3) Classical Thermodynamics

First and second laws of thermodynamics. Entropy and availability. Cycle analysis. Thermodynamic properties of pure substances and mixtures. Property relations. Chemical reactions and chemical availability. Energy systems analysis. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-5023 (3) Solid Mechanics 1

Introduces stress, strain, and motion of a continuous system. Discusses material derivative; fundamental laws of mass, momentum, energy, and entropy; constitutive equations and applications to elastic and plastic materials. Prereq., MCEN 2063 or equivalent; coreq., MCEN 5020 or equivalent. Similar to ASEN 5012. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-5024 (3) Materials Chemistry and Structures

Provides graduate level students with a comprehensive overview of the chemistry and structure of material systems, with a focus on chemical bonding, the resulting material structures and their properties. This course is intended to become one of the four core courses offered in the new Materials Science curriculum. Course topics include: bonding in solids, crystalline and amorphous states, basic group theory, diffraction, metals and alloys, ceramics, and an intro to mat. characterization. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-5025 (3) Computer-Aided Design of Mechanical Systems

Instructs students in displacement, velocity, and accelerations matrix formulation of mechanisms. Emphasizes numerical methods to solve simultaneous nonlinear algebraic and differential equations modeling mechanical devices. Involves analysis and synthesis of mechanical components and systems, including planar and spatial linkages, cams, springs, shafts, and gear trains. Prereqs., MCEN 3030 or equivalent, and MCEN 3025. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-5027 (1) Graduate Seminar

Offers weekly presentations by visiting speakers, faculty, and students. May be repeated up to 6 total credit hours. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Miscellaneous](#)

MCEN-5034 (3) Thermodynamics of Materials

Provides a unified presentation of fundamental concepts applicable to the thermodynamics of engineering materials. Develops quantitative tools for understanding the physical principles that govern phase equilibrium and transformation. Generates binary and ternary phase diagrams and determine the resulting materials structures and corresponding physical and mechanical properties. Recommended prereqs., MCEN 2024 and 3012.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Materials](#)

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Courses

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MCEN

MCEN-5040 (3) Methods of Engineering Analysis 2

Studies selected topics from the theory of complex variables, integral transform methods, partial differential equations, and variational methods. Assigns computer exercises. Correlates with analysis topics in other mechanical engineering graduate courses, and emphasizes applications. Prereq., MCEN 5020 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Math](#)

MCEN-5041 (3) Viscous Flow

Highlights exact solution of Navier-Stokes equations and fundamentals of rotating fluids. Considers Low Reynolds number flow; similarity solutions; viscous boundary layers, jets, and wakes; and unsteady viscous flow. Prereq., MCEN 5021 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Fluids](#)

MCEN-5042 (3) Heat Transfer

Studies development of equations governing transport of heat by conduction, convection, and radiation, and their solution. Includes analytical and numerical solution of initial and boundary value problems representative of heat conduction in solids. Describes heat transfer in free and forced convection, including laminar and turbulent flow. Also involves radiation properties of solids, liquids, and gases and transport of heat by radiation. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Thermal](#)

MCEN-5044 (3) Mechanical Behavior of Materials

This introductory-level graduate course incorporates relevant aspects of materials science, solid mechanics, thermodynamics and mathematics, and applies them to achieve a fundamental understanding of the mechanical behavior of crystalline and non-crystalline engineering materials. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students. Prereq., MCEN 2024 and 2063 or equivalent. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-5045 (3) Design for Manufacturability

Topics include general design guidelines for manufacturability; aspects of manufacturing processes that affect design decisions; design rules to maximize manufacturability; statistical considerations; value engineering and design for assembly (manual, robotic, and automatic). Presents case studies of successful products exhibiting Dfm. Prereq., MCEN 4026 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Materials

MCEN-5066 (3) Principles and Practices of World Class Manufacturing

Introduces manufacturing principles and practices that are essential to competing successfully in a global environment. Topics include manufacturing as a competitive tool, total quality management, process control, benchmarking, total productive maintenance, just in time, design of experiments, flexible manufacturing, and case studies.

College of Engineering & Applied Science | Mechanical Engineering | Manufacturing and Systems

MCEN-5115 (3) Mechantronics and Robotics I

Same as MCEN 4115. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-5117 (3) Anatomy and Physiology for Engineers

Same as MCEN 4117. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Miscellaneous

MCEN-5121 (3) Compressible Flow

Applies energy, continuity, and momentum principles to compressible flow. Topics include normal and oblique shocks; Prandtl-Meyer expansion; methods of characteristics; and one-, two-, and three-dimensional subsonic, supersonic, and hypersonic flows. Prereq., MCEN 5021 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Fluids

MCEN-5122 (3) Statistical Thermodynamics

Axiomatic formulation of macroscopic thermodynamics. Quantum mechanical description of atomic and molecular structure. Statistical mechanics description of thermodynamic properties of gases, liquids and solids. Elementary kinetic theory of gases and evaluation of transport properties. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prereq., undergraduate thermodynamics. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Thermal

MCEN-5123 (3) Theory of Vibration

Same as MCEN 4123. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Solids

MCEN-5125 (3) Optimal Design of Mechanical Components

Applies linear and nonlinear optimization methods to the design of mechanical components and systems. Examines unconstrained and constrained optimizations as well as formulation of objective functions, including cost, weight, response time, and deflection. Applies knowledge to gears, springs, cams, and linkages. Prereqs., MCEN 3025 and 3030 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science | Mechanical Engineering | Design

MCEN-5126 (3) Applied Statistics for the Manufacturing and Process Industries

Discusses the concepts and techniques of applied statistics essential to quality control and product/process improvement. Includes computer control (SQC/SPC), sampling methods and time series analysis, and methods of experimental design. Prereq., MCEN 4120. Same as CHEN 5127 and CVEN 5127. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS

Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Manufacturing and Systems

MCEN-5131 (3) Air Pollution Control Engineering

Same as MCEN 4131. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-5135 (3) Wind Energy and Wind Turbine Design

Provides an excellent opportunity for students to learn about a current technology, wind energy, that is of high interest both technically and commercially. Students can then apply various technical courses they have had (e.g. fluid dynamics, dynamics and electric circuits, economics, etc.) to design a wind turbine and determine through economic analysis if their design is financially viable. Prereqs. for MCEN 4135 are two of MCEN 3021, 4043 or 3010 (min. grade C-) or equivalent. MCEN 5135 is restricted to MCEN, ASEN, or CVEN grad students only. MCEN 4135 and 5135 are the same course. Prerequisites: Restricted to Mechanical Engineering, Civil Engineering or Aerospace Engineering graduate students only.

College of Engineering & Applied Science Mechanical Engineering Design

MCEN-5141 (3) Indoor Air Pollution

Same as MCEN 4141. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-5142 (3) Computational Fluid Dynamics, Heat Transfer, and Combustion

Finite difference, finite volume, finite element, and spectral methods, consistency, stability and convergence of numerical schemes, governing equations for reacting flows, convection, diffusion, convection-diffusion problems, matrix solution methods-cyclic reduction, Fourier, Jacobin, Gauss Siedel, Sor, Adi, Chebschev acceleration, Lax-Wendroff scheme, McCormack scheme, transonic small disturbance equation solution, staggered grids, simple scheme, discrete Fourier transform. Students work on two substantial projects using commercial software. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-5146 (3) Applied Statistics in Research and Development

Same as CHEN 5128. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Manufacturing and Systems

MCEN-5151 (3) Flow Visualization

Explores techniques for the visualization of the physics of fluid flows including seeding with dyes, particles and bubbles, and shadowgraphy and schlieren. Reviews optics and fluid physics, especially atmospheric clouds. Assignments are student-driven, to individuals and mixed teams of grad, undergrad, engineering majors and photography/video majors. Please see <http://flowvis.colorado.edu>. Prereq., MCEN 3021 or equivalent, or significant imaging experience (photography/video). FILM 4200 and ARTF 5200 are the same course. Same as MCEN 4151/5151.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-5152 (3) Introduction to Combustion

Same as MCEN 4152. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Thermal

MCEN-5161 (3) Aerosols

Introduces atmospheric aerosols and properties of their distributions, followed by fundamental descriptions of single particle dynamics, thermodynamics, nucleation, coagulation, mass transfer and populations dynamics. During the second half of the course, the focus will shift to sources and sinks of atmospheric aerosols, their impacts on atmospheric chemistry and radiation, and the impacts of these processes on air quality and climate. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Mechanical Engineering Fluids

MCEN-5164 (3) Fracture

Focuses on basic mechanisms controlling fracture in brittle materials, reduction of capacity for plastic deformation in engineering materials used at high-strength levels, and selection of materials in terms of toughness as well as strength. Prereq., MCEN 4124 and 5044, or equivalent.

College of Engineering & Applied Science Mechanical Engineering Materials

MCEN-5166 (3) Electronics Packaging and Manufacturing

To provide basic knowledge of the technologies and processes required for the packaging and manufacturing of electronic products. Topics covered include wafer fabrication, different levels of packaging, thermal management, life cycle engineering, printed wiring board assembly processes, and process control. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Manufacturing and Systems](#)

MCEN-5173 (3) Finite Element Analysis

Same as MCEN 4173. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Solids](#)

MCEN-5174 (3) Failure of Engineering Materials

Same as MCEN 4174. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Materials](#)

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Courses

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MCEN

MCEN-5183(3) Mechanics of Composite Materials

Same as MCEN 4183. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Solids](#)

MCEN-5208 (1-4) Special Topics

Credit hours and subject matter to be arranged. Numbered MCEN 5208-5298. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Miscellaneous](#)

MCEN-5228 (1-4) Special Topics

May repeated up to 15 total credit hours. Same as MCEN 4228. Prerequisites: Restricted to graduate students in College of Engineering and Applied Science or to students with 57-180 credits (Junior or Senior) or Mechanical Engineering Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Miscellaneous](#)

MCEN-5248 (1-3) Special Topics

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

MCEN-5268 (3) Special Topics

Same as MCEN 4278.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5636 (3) Micro-Electro-Mechanical Systems 1

Addresses issues of micro-electro-mechanical systems (MEMS) modeling, design, and fabrication. Emphasizes the design and fabrication of sensors and actuators due to significance of these devices in optics, medical instruments, navigation components, communications, and robotics. Prereq., instructor consent. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Manufacturing and Systems

MCEN-5848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848--5898. Prereq., graduate standing.

College of Engineering & Applied Science Mechanical Engineering Miscellaneous

MCEN-5898 (1-4) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 5848--5898. Prereq., graduate standing.

College of Engineering & Applied Science Mechanical Engineering Special Topics

MCEN-6163 (3) Elastic Waves

Effect of transient localized sources or dislocations in an elastic medium is studied. . Modeling and application of waves in rods, beams, and plates is emphasized. In addition, ultrasonic, nondestructive evaluation and seismological problems are discussed. Prereq., MCEN 5023 or equivalent. Recommended MCEN 5040 or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

College of Engineering & Applied Science Mechanical Engineering Solids

MCEN-6184 (3) Structure and Properties of Polymers

Emphasizes the relationship between molecular structure and macroscopic properties. Structural aspects include chain conformation,

configuration, and the crystalline and amorphous states. Discusses physical and mechanical properties with a focus on solution and phase behavior, transitions of bulk polymers, and rubber and viscoelastic behavior. Prereq., graduate standing and MCEN 5024 and 5044, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Materials](#)

MCEN-6228 (3) Special Topics

Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

MCEN-6278 (3) Special Topics

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

MCEN-6848 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

MCEN-6898 (1-6) Independent Study

Available only through approval of graduate advisor. Subjects arranged to fit the needs of the particular student. Numbered MCEN 6848-6898. Prereq., graduate standing.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

MCEN-6949 (1) Master's Degree Candidacy

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Thesis](#)

MCEN-6959 (1-6) Master's Thesis

MCEN-7120 (3) Perturbation Methods

Teaches regular and singular perturbation methods for solving ordinary and partial differential equations and for evaluating integrals. Emphasizes formulation of mathematical models in fluid mechanics, combustion, heat transfer, solid mechanics, dynamics, and wave propagation. Prereq., MCEN 5020 and 5040, or equivalent. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

MCEN-7122 (3) Combustion Phenomena

Applies multicomponent fluid equations of motion and chemical thermodynamics to a variety of combustion problems. Covers droplet combustion, premixed and diffusion flames, boundary layer combustion, detonation wave theory, topics related to internal combustion engines, and liquid and solid rockets. Prereq., MCEN 3012 and 3021. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

MCEN-7123 (3) Dynamics of Continuous Media

Reflects upon derivation of wave equations from the basic equations of dynamic elasticity. Topics include propagation of elastic waves in infinite and partially bounded media, Rayleigh waves and Love waves, Pochhammer solution for a rod, and waves in plates and in layered and anisotropic media. Prereq., MCEN 5020, 5040, and 5043, or equivalents. Same as PHYS 6680 and GEOL 6680. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

MCEN-7208 (1-4) Special Topics

Credit and subject matter to be arranged. Numbered MCEN 7208-7298.

MCEN-7221 (3) Turbulence

Hydrodynamic stability theory, equations for turbulent flows, free shear flows and boundary layers, homogeneous and isotropic turbulence, overview of turbulent combustion, reaction kinetics, energy equation, Favre averaging, Pdfs, premixed and nonpremixed flame modeling, and recent developments. Restricted to College of Engineering and Applied Science Graduate Students or BS/MS

Mechanical Engineering Concurrent Degree students. Prerequisites: Restricted to College of Engineering and Applied Science Graduate Students or BS/MS Mechanical Engineering or Concurrent Degree students.

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Fluids](#)

MCEN-8999 (1-10) Doctoral Thesis

[College of Engineering & Applied Science](#) [Mechanical Engineering](#) [Special Topics](#)

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Subject **Number**

MEMS

MEMS-2020 (3) Introduction to Medieval and Renaissance Studies

Introduces students to the literature, history, culture and art of Europe and the Mediterranean basin from late antiquity through the renaissance. The course is interdisciplinary and focuses on topics which reveal the dynamism and diversity of pre-modern culture. Formerly MEDV 2020.

[College of Arts & Sciences](#) [Medieval and Early Modern Studies](#)

MEMS-4020 (3) Medieval and Early Modern Studies: Texts and Contexts

Focuses on communities in the Mediterranean basin and Europe (i.e., cloister, court, and city), discussing major literary texts and visual monuments associated with them and their historical context. Emphasizes tensions between tradition and innovation, Latin and vernacular, East and West, Christian and non-Christian (Jewish and Islam), sacred and secular, authority and freedom, and male and female. Prereqs., CLAS 1110 and 1120, or ENGL 2222 and 2502, or HIST 1010 and 1020, or HUMN 1010 or 1020, or instructor consent. Same as MEMS 5020. Formerly MEDV 4020.

[College of Arts & Sciences](#) [Medieval and Early Modern Studies](#)

MEMS-4030 (3) Medieval and Early Modern Studies: Special Topics

Different topics offered by the faculty of the Medieval and Early Modern Studies Program in alternate semesters. Topics may include the literature of pilgrimage and travel, women and minorities, theatre, music, epic, medieval and early modern views of the classics, the Bible, and medieval and early modern theories of education. Prereqs., CLAS 1110 and 1120, or ENGL 2222 and 2502, or HIST 1010 and 1020, or HUMN 1010 or HUMN 1020, or instructor consent. Same as MEMS 5030. Formerly MEDV 4030.

[College of Arts & Sciences](#) [Medieval and Early Modern Studies](#)

MEMS-5020 (3) Medieval and Early Modern Studies: Texts and Contexts

Prereq., graduate standing in comparative literature, theatre, classics, or instructor consent. Recommended prereq., ability to use literary texts in their original language. Same as MEMS 4020. Formerly MEDV 5020.

[College of Arts & Sciences](#) [Medieval and Early Modern Studies](#)

MEMS-5030 (3) Medieval and Early Modern Studies: Special Topics

Prereq., graduate standing in comparative literature, theatre, classics, or instructor consent. Recommended prereq., ability to use literary texts in their original language. Same as MEMS 4030. Formerly MEDV 5030.

[College of Arts & Sciences](#) [Medieval and Early Modern Studies](#)



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MGMT

MGMT-3030 (3) Critical Leadership Skills

Provides an opportunity to learn about and practice the skills required of all managers. These skills include leadership, negotiation, conducting performance appraisals, delegation, effective communication, interviewing and making hiring decisions, and managing employees with problem behaviors. Objectives include developing self-awareness of strengths and weaknesses as a manager, gaining familiarity with theory-based skills, and developing proficiency in the use of these skills. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Management](#)

MGMT-3100 (3) Management of Service Operations

Examines concepts, tools and techniques used in the management of service operations. Focuses on how firms add value and compete with high quality and efficient services. Emphasizes the use of models for designing new services and improving the effectiveness of service processes. Studies the application of technology in the context of productivity, growth and the globalization of services. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3030, OPIM 3030. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

[Leeds School of Business](#) [Management](#)

MGMT-3200 (3) Business Intelligence

Focuses on acquiring accurate and timely knowledge to make effective operational, tactical and strategic decisions. This course focuses on how to create and use such knowledge. Topics include problem definition; critical factor isolation; data collection, storage, and querying; transformation of data into knowledge through appropriate analyses and aggregation; and the presentation of the knowledge to decision makers in meaningful ways. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3100, OPIM 3100. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

[Leeds School of Business](#) [Management](#)

MGMT-3210 (3) Business Application Programming

Uses computer programming to teach a complex problem solving skill. Its two main course objectives are: (1) learn to use a structured problem decomposition method, designed to help decompose a complex problem into manageable sub-problems. This method is best exemplified in programming but is applicable to any complex business problem. (2) understand the core concepts of programming--such as variable, object model, and control flow--that will help you not only appreciate the power of programming behind modern technologies but also better understand business process models. Formerly SYST 2010, OPIM 2010 and MGMT 2010.

Leeds School of Business | Management

MGMT-4010 (3) Redefining the Employee-Employer Relationship

Explores developments in such areas as employee relations law and procedures, employee and employer rights, worker involvement programs, environmental safety and health, and the effects of technology on emerging organization forms. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4020 (3) Hiring and Retaining Critical Human Resources

Allows students the opportunity to practice conducting job analyses and then use this information to develop employee selection and performance appraisal systems. Provides thorough coverage of employers' equal employment opportunity and affirmative action obligations, as well as various approaches to gender, cultural, and ethnic diversity. Prereq., BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4030 (3) Managing Employee Reward Systems

Examines theories of work motivation and relates them to the strategic use of compensation and other reward systems. Topics include procedures for managing base pay; linking pay incentives to productivity at the individual, group, and organizational levels; developing cost-effective programs of employee benefits; and the use of nonfinancial reward systems. Prereq., BCOR 2150 or BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4040 (3) Individual, Team, and Organizational Development

Explores how to determine where an organization needs to focus its development efforts, how to develop and deliver an effective training program, and how to evaluate the impact of development programs on organizational effectiveness. Explores individual, team, and organization-wide development, including such topics as skills training, team building, and managing change. Prereq., BCOR 2150 or BCOR 2300. Restricted to students with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business | Management

MGMT-4090 (3) IT and Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. Combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to success. Prereqs., BCOR 2200 or BCOR 2300. Restricted to business majors with 52 hours completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Management

MGMT-4110 (3) Supply Chain Management

Explores the key issues related to the design and management of supply chains. Covers the efficient integration of suppliers, production facilities, warehouses, and stores so that the right products in the right quantity reach customers at the right time. Focuses on the minimization of the total supply chain cost subject to service requirements imposed by a variety of industries. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 4050, OPIM 4050. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business Management

MGMT-4120 (3) Managing Business Processes

Covers the concepts and tools to design and manage business processes. Emphasizes modeling an analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business processes. MGMT 4120 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4120 and 5120 are the same course. Formerly SYST 4060, OPIM 4060. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business Management

MGMT-4130 (3) Sustainable Operations

Operational sustainability is not just an obligation, as set of strategies or a niche market to explore, but a critical shift in mindset of how businesses function. Sustainable operations examines business strategies in response to environmental and social challenges. The course takes a pragmatic business perspective on improving operations across the supply chain. Grounded in resource efficiency, life-cycle thinking and a dose of investigative skepticism, the course assists students to thoroughly understand the scope of costs, benefits and risks associated with driving businesses toward sustainable operations. Prereqs., BCOR 2500, 3010 and 60 hours completed. MGMT 4130 and CESR 4130 are the same course. Prerequisites: Restricted to Business, AEBU, ARBU, CEBU, CVBU, CSBU, ECBU, MEBU, EVBU, ADBU, BNBU, NEBU or MUBU Majors with 52-180 units completed.

Leeds School of Business Management

MGMT-4140 (3) Project Management

Introduces multidisciplinary project management concepts, skills, and tools, including the relationship between project definition,

organization, planning, scheduling, resource and risk management, control, costing, and performance. Presents both qualitative and quantitative tools for better project management. Prereq., BCOR 2500 and 52 hours completed. Formerly OPIM 4080 and MGMT 4085. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Management](#)

MGMT-4150 (3) International Operations Management

Compares systems of production/operations management in the United States with those in Japan, Europe, and Asia. Contrasts various regional and national approaches to business, quality management, labor practices, management styles, international competitiveness, productivity, distribution systems, trade practices, and strategies for penetrating foreign markets. Examines different sociocultural environments, government-business relationships, banking industries, operations strategies, and the potential for transferring industrial management practices and techniques between countries. Prereq., BCOR 2500. Restricted to students with 52 hours completed. Formerly OPIM 4065 and MGMT 4070. Prerequisites: Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) | [Management](#)

MGMT-4210 (3) Systems Thinking

Analysis of systems thinking and understanding the complex interactions of collections of people, processes, organizations, and technologies. Students learn to be creative and critical thinkers who can conceptually model the very complex systems we encounter in our world today. Restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3000, OPIM 3000. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

[Leeds School of Business](#) | [Management](#)

MGMT-4220 (3) Business Technologies

Covers the use and configuration of ERP (enterprise resource planning) technologies in businesses. Emphasizes the understanding of the usage of technology in facilitating business processes within firms. Covers many modules/functional areas, including sales, marketing, distribution, manufacturing, etc. Students learn the importance of technology to organizations through hands-on use of multiple ERP software, focusing on both business processes as well as technology. Restricted to students with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 3101, OPIM 3101. Prerequisites: Restricted to students with 52-180 units completed.

[Leeds School of Business](#) | [Management](#)

MGMT-4230 (3) Design of Usable Business Systems

Focuses on the usefulness and usability of systems in organizations. Examines the bottom line implications of information systems and how to create systems that are easy to use for all potential users. Creative and critical thinking to design and build systems are stressed through individual and team exercises. MGMT 4230 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4230 and 5230 are the same course. Formerly SYST 4510, OPIM 4510. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

[Leeds School of Business](#) | [Management](#)

MGMT-4820 (3) Topics in Business

Experimental course offered irregularly for purpose presenting new subject matter in organization management. Same as MGMT 5820.

Leeds School of Business Management

MGMT-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Management. Restricted to Business (BUSN) majors with 52-180 units completed. Prerequisites: Restricted to Business (BUSN) majors with 52-180 units completed.

Leeds School of Business Management

MGMT-4850 (3) Senior Seminar in Management

Covers the issues and challenges of running a firm in a competitive environment. It integrates and builds upon coursework in other functional areas. Discusses principles, frameworks, and techniques that helps understand how to analyze the competitive environment; firm sources of competitive advantage; competitive dynamics; and, specific types of strategies to promote firm performance. Focuses on specific company examples. Prereqs., BCOR 2300, 2500, MGMT 3030. Restricted to students with 102-180 units completed. Formerly MGMT 4000. Prerequisites: Restricted to students with 102-180 units completed.

Leeds School of Business Management

MGMT-4900 (1-3) Independent Study

Intended only for exceptionally well qualified business seniors. Departmental form required. Prereq., dean and instructor consent.

Leeds School of Business Management

MGMT-4910 (1-3) Academic Internship in Management

Offers students the opportunity to gain professional work experience in a management position while still in school. Provides academically relevant work experience that complements students' studies and enhances their career potential. Includes 100 hours per credit and a course paper. Instructor consent is required. Pass/Fail grading only. Restricted to students with 52-180 units completed. Prereq., BCOR 2500. Formerly SYST 4910, OPIM 4910. Prerequisites: Restricted to students with 52-180 units completed.

Leeds School of Business Management

MGMT-5120 (3) Managing Business Processes

Covers the concepts and tools to design and manage business processes. Emphasizes modeling an analysis, information technology support for process activities, and management of process flows. Graphical simulation software is used to create dynamic models of business processes and predict the effect of changes. Prepares students for a strong management or consulting career path in business

processes. MGMT 4120 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4120 and 5120 are the same course. Formerly SYST 4060, OPIM 4060. Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) | [Management](#)

MGMT-5230 (3) Design of Usable Business Systems

Focuses on the usefulness and usability of systems in organizations. Examines the bottom line implications of information systems and how to create systems that are easy to use for all potential users. Creative and critical thinking to design and build systems are stressed through individual and team exercises. MGMT 4230 is restricted to Business (BUSN) majors with 52-180 units completed. Prereq., BCOR 2500. MGMT 4230 and 5230 are the same course. Formerly SYST 4510, OPIM 4510. Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) | [Management](#)

MGMT-5820 (3) Topics in Business

Same as MGMT 4820.

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MGMT

MGMT-8900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

[Leeds School of Business](#) [Management](#)

MGMT-8990 (1-10) Doctoral Thesis

Work with a faculty advisor on a doctoral thesis. Student should have passed comprehensive exam before registering for doctoral thesis hours. Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) [Management](#)



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MILR

MILR-1011 (2) Adventures in Leadership 1

Introduces fundamentals of leadership and the United States Army. Examines its organization, customs, and history as well as its current relevance and purpose. Students also investigate basic leadership and management skills necessary to be successful in both military and civilian settings. Includes fundamentals of Army leadership doctrine, team-building concepts, time and stress management, an introduction to cartography and land navigation, marksmanship, briefing techniques, and some basic military tactics.

[Cross College Programs](#) [Reserve Office Training Corp](#) [Military Science \(U.S. Army\)](#)

MILR-1021 (2) Adventures in Leadership 2

Continues the investigation of leadership in small organizations. Covers selected topics such as basic troop leading procedures, military first aid and casualty evacuation concepts, creating ethical work climates, an introduction to Army organizations and installations, and a further examination of basic military tactics. Introduces students to effective military writing styles.

[Cross College Programs](#) [Reserve Office Training Corp](#) [Military Science \(U.S. Army\)](#)

MILR-2031 (3) Methods of Leadership and Management 1

Comprehensively reviews advanced leadership and management concepts including motivation, attitudes, communication skills, problem solving, human needs and behavior, and leadership self development. Students continue to refine effective written and oral communications skills and to explore topics such as the basic branches of the Army, and officer and NCO duties. Students conduct classroom and practical exercises in small unit light infantry tactics and are prepared to perform as midlevel leaders in the cadet organization.

[Cross College Programs](#) [Reserve Office Training Corp](#) [Military Science \(U.S. Army\)](#)

MILR-2041 (3) Methods of Leadership and Management 2

Focuses on leadership and management functions in military and corporate environments. Studies various components of Army leadership doctrine to include the four elements of leadership, leadership principles, risk management and planning theory, the be-know-do framework, and the Army leadership evaluation program. Continue to refine communication skills.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Military Science \(U.S. Army\)](#)

MILR-3052 (3) Military Operations and Training 1

Further explores the theory of managing and leading small military units with an emphasis on practical applications at the squad and platoon levels. Students examine various leadership styles and techniques as they relate to advanced small unit tactics. Familiarizes students with a variety of topics such as cartography, land navigation, field craft, and weapons systems. Involves multiple, evaluated leadership opportunities in field settings and hands-on experience with actual military equipment. Students are given maximum leadership opportunities in weekly labs. Prereq., consent of the Professor of Military Science.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Military Science \(U.S. Army\)](#)

MILR-3062 (3) Military Operations and Training 2

Studies theoretical and practical applications of small unit leadership principles. Focuses on managing personnel and resources, the military decision making process, the operations order, and oral communications. Exposes the student to tactical unit leadership in a variety of environments with a focus on preparation for the summer advance camp experience. Prereq., consent of the Professor of Military Science.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Military Science \(U.S. Army\)](#)

MILR-4072 (3) Officer Leadership and Development 1

Examines management and leadership concepts and techniques associated with planning and executing military training and operations at company and higher echelons. Includes analyses of professional ethics and values, effective training principles and procedures, subordinate counseling, and effective staff officer briefing techniques. Also investigates other subjects such as counter terrorism, modern peacekeeping missions, and the impact of the information revolution on the art of land warfare. Conducted both in and out of classroom setting and with multiple practical leadership opportunities to organize cadet training and activities. Prereq., consent of the Professor of Military Science.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Military Science \(U.S. Army\)](#)

MILR-4082 (3) Officer Leadership and Development 2

Continues Milr 4072 study of management and leadership concepts and techniques, providing practical leadership experiences in the classroom and during multiple cadet-run activities. Also examines varied topics such as theory and practice of the military justice system,

law of war, military-media relations, support mechanisms for soldiers and their families, operational security considerations, and historical case studies in military leadership in the context of 21st century land warfare. Prereq., consent of the Professor of Military Science.

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MKTG

MKTG-3150 (3) Sales Management

Explores the selling task and the essentials of managing the sales force. Includes recruiting, selecting and hiring, training, compensating, supervising, and controlling. Covers sales organization, sales planning, sales forecasting, assigning territories, quotas, and sales analysis. Prereq., BCOR 2400. Restricted to students with 52 hours completed. Formerly MKTG 4150. Prerequisites: Restricted to Business or Advertising majors and 52-180 hours completed.

[Leeds School of Business](#) [Marketing](#)

MKTG-3250 (3) Buyer Behavior

Covers both consumer buying behavior and organizational buying behavior. Consumer behavior topics include needs and motives, personality, perception, learning, attitudes, cultural influence, and contributions of behavioral sciences that lead to understanding consumer decision making and behavior. Explores differences between business and consumer markets, business buying motives, the organizational buying center and roles, and the organizational buying process. Required for marketing majors. Prereq., BCOR 2400. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 2050 or 2400. Restricted to Business or ADVT Majors and 52-180 hours completed.

[Leeds School of Business](#) [Marketing](#)

MKTG-3350 (3) Marketing Research

Explores fundamental techniques of data collection and analysis used to solve marketing problems. Specific topics include problem definition, planning an investigation, developing questionnaires, sampling, tabulation, interpreting results, and preparing and presenting a final report. Required for marketing majors. Prereqs., BCOR 1020 and 2400. Restricted to students with 52 hours completed. Prerequisites: Requires pre-requisite courses of BCOR 1020 and 2050 or 2400. Restricted to Business Majors with 52-180 units completed.

[Leeds School of Business](#) [Marketing](#)

MKTG-3825 (3) Experimental Seminar

Offered irregularly. Provides opportunity for investigation into new frontiers in marketing. Prereq., BCOR 2400. Restricted to BUSN majors with minimum 52 units completed. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Marketing

MKTG-4250 (3) Product Strategy

Covers major topics in managing long-term customer relationships that derive from products. Focuses on concepts, analyses, and strategies for existing and new products. Topics include concept development and testing, conjoint analysis, product positioning, brand image measurements and brand management, and product issues in public policy and ethics. Methods of instruction include lectures, case discussions, student group papers and projects, and examinations. Prereqs., MKTG 3250 and 3350. Prerequisites: Requires pre-requisite courses of MKTG 3250 and 3350. Restricted to Leeds School of Business (BUSN) majors with 52 minimum units required.

Leeds School of Business Marketing

MKTG-4300 (3) Pricing and Channels of Distribution

Offered regularly to examine pricing and channel management, the two key components of companys' marketing strategies. Help students to understand the common types of pricing and channel strategies, the rationales behind these strategies. Train students to think analytically in order to apply these strategies. Prereqs., MKTG 3250 and 3350. Restricted to BUSN students with minimum 52 units completed. Prerequisites: Requires pre-requisite courses MKTG 3250 and 3350. Restricted to Business majors with minimum 52 units completed.

Leeds School of Business Marketing

MKTG-4350 (3) Services Marketing Strategy

Designed for those students interested in working in the service industries. Addresses the distinct needs and problems of service organizations in the area of marketing and service quality. Service organizations (i.e., banks, transportation companies, hotels, hospitals, educational institutions, professional services, etc.) require a distinctive approach to marketing strategy---both in its development and execution. Builds and expands on marketing ideas and how to make them work in service settings. Prereqs., MKTG 3250 and 3350.

Leeds School of Business Marketing

MKTG-4500 (3) Advertising Management

Prereqs., MKTG 3250 and 3350. Restricted to students with 52 hours completed.

Leeds School of Business Marketing

MKTG-4550 (3) Advertising and Promotion Management

Analyzes advertising and promotion principles and practices from the marketing manager's point of view. Considers the decision to advertise, market analysis as a planning phase of the advertising program, media selection, public relations, sales promotion, promotion budgets, campaigns, evaluation of results, and agency relations. Prereqs., MKTG 3250 and 3350. Prerequisites: Requires prerequisite courses of MKTG 3250 and 3350. Restricted to Leeds School of Business (BUSN) majors with 52 minimum units required.

Leeds School of Business | Marketing

MKTG-4650 (3) Institutional Relationships and Strategy

Focuses on the management of a firm's relationships with other businesses. Addresses business-to-business marketing strategies, relationships with channel members, and strategic alliances/partnerships. Topics include relationship structures, power, conflict, negotiation, industry analysis, selection of business partners, and managing for long-term stability. Prereqs., MKTG 3250 and 3350.

Leeds School of Business | Marketing

MKTG-4810 (3) Honors Seminar

Social responsibilities of the business executive, business ethics, business-government relations, and business in literature. Open to seniors who have completed at least 30 semester hours of business courses with not less than a 3.30 GPA and have instructor consent. Prereq., BCOR 2400.

Leeds School of Business | Marketing

MKTG-4820 (3) Special Topics in Marketing

Offered irregularly. Provides opportunity for investigation into new frontiers in marketing.

Leeds School of Business | Marketing

MKTG-4825 (1-3) Pricing and Channels of Distribution

Offered irregularly to provide opportunity for investigation of new frontiers in Marketing. Requires prerequisite courses of MKTG 3250 and 3350. Restricted to students with 57-180 credits (Junior or Senior). Prerequisites: Requires prerequisite courses of MKTG 3250 and 3350. Restricted to students with 57-180 credits (Junior or Senior).

Leeds School of Business | Marketing

MKTG-4850 (3) Senior Seminar in Marketing

Capstone marketing course that integrates and further develops what students have learned in other courses. Provides students with the

insight and skills necessary to formulate and implement sound socially responsible marketing strategies, product line management strategies, promotional and product/service communication strategies, pricing, and distribution strategies. Prereqs., MKTG 3250, 3350, two additional 4000-level MKTG courses from either MKTG 4250, 4300 or 4550 with the third serving as a co-requisite, and 102 hours completed. Restricted to graduating MKTG majors. Formerly BCOR 4004. Prerequisites: Requires pre-requisite courses of MKTG 3250 and 3350 and either MKTG 4250 or 4300 or 4550. Restricted to MKTG Majors with 102 to 180 units completed.

Leeds School of Business | Marketing

MKTG-4900 (1-6) Independent Study

Intended only for exceptionally well qualified business seniors. Instructor and division chair consent required.

Leeds School of Business | Marketing

MKTG-6900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business | Marketing

MKTG-6940 (1) Master's Candidate

Departmental form required.

Leeds School of Business | Marketing

MKTG-6950 (1-6) Master's Thesis

Leeds School of Business | Marketing

MKTG-7000 (3) Seminar in Consumer Behavior

Studies the nature and determinants of consumer buying behavior. In-depth investigation of contributions of behavioral sciences (especially psychology, sociology, and cultural anthropology) toward understanding consumer behavior. Influence of demographic factors, motivation, personality, culture, and purchasing behavior. Prereq., instructor consent.

Leeds School of Business | Marketing

MKTG-7200 (3) Experimental Research Methods in Marketing

Provides a detailed exposure to the design of laboratory/field experiments and quasi-experiments for marketing and consumer research. Emphasizes the choice of design options, data collection methods, statistical analysis, and substantive interpretation of experimental results.

Leeds School of Business | Marketing

MKTG-7300 (3) Multivariable Methods in Marketing Research

Includes Manova designs, causal models, cluster analysis, discriminant function analysis, factor analysis, and latent structure analysis. Emphasizes computer applications. Prereqs., graduate courses in regression and Manova.

Leeds School of Business | Marketing

MKTG-7305 (3) Qualitative and Survey Research Methods in Business

Detailed exposure to qualitative and survey research methods in business. Qualitative methods include participant observation, depth interviews, focus-group interviews and ethnography. Survey methods include measurement theory, survey design and sampling, survey implementation, data analysis, and substantive interpretation.

Leeds School of Business | Marketing

MKTG-7310 (3) Design and Analysis of Experiments in Business

Detailed exposure to experimental research methods for business applications. Emphasizes the choice of design options, data collection methods, statistical analysis, and substantive interpretation of experimental results.

Leeds School of Business | Marketing

MKTG-7400 (2) Doctoral Seminar: Channels of Distribution

Study of marketing literature in channels of distribution. Includes topics of channel structure, channel power, channel conflict and leadership, physical distribution systems, and regulation.

Leeds School of Business | Marketing

MKTG-7500 (2) Doctoral Seminar: Promotion

Study of marketing literature dealing with advertising, selling, sales promotion, and sales management. Includes topics of advertising

decision models, advertising effects, sales-force performance models, and promotion management.

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MKTG

MKTG-7600 (3) Doctoral Seminar: Services Marketing

Study of marketing literature dealing with services. Includes such topics as service management, theoretical issues in the study of services, and strategies in travel, tourism, recreation, and financial services industries.

[Leeds School of Business](#) | [Marketing](#)

MKTG-7800 (3) Doctoral Proseminar: Marketing

Provides marketing doctoral students with an orientation to the marketing field and introduces contemporary research perspectives and priorities. Students discuss papers that illustrate academic researchers' use of various disciplinary perspectives to address marketing problems and the range of theoretical and empirical methods used.

[Leeds School of Business](#) | [Marketing](#)

MKTG-7805 (3) Doctoral Seminar: Economic and Administrative Science Approaches to Research

Examines marketing management and consumer behavior issues from the vantage of economics and organizational theory. One segment of the course focuses on theoretical and empirical analysis of the means by which utility-maximizing consumers learn about consumption environment and respond to firms' marketing decisions. Another segment examines research on firms' competitive strategy and marketing mix decisions and explores how organizational sociological factors influence these decisions.

[Leeds School of Business](#) | [Marketing](#)

MKTG-7810 (3) Doctoral Seminar: Psychological Approaches to Research in Marketing

Examines the basic psychological processes that underlie common marketing phenomena. Topics include memory and judgment, persuasion, attitude-behavior consistency, information processing, automatic and controlled processes, learning, motivation and cognition, social judgment, and the role of affect and mood on judgment. Discusses topics in consumer behavior and marketing management contexts, in conjunction with related methodological issues. Prerequisites: Restricted to Graduate Students only.

Leeds School of Business | Marketing

MKTG-7815 (3) Doctoral Seminar: Consumer and Managerial Decision Making in Marketing

Examines judgment and decision making research pertinent to understanding how consumers and marketing managers make decisions. Uses economic models as a normative backdrop for examining research on decision heuristics, judgment and choice anomalies, and contingent decision behavior. Examines processes of causal judgment and inference and the influence of a variety of contextual factors (including time) on judgment and decision.

Leeds School of Business | Marketing

MKTG-7820 (3) Doctoral Seminar: Sociological and Anthropological Approaches to Research in Market

Inquires into substantive and methodological issues concerning postmodern consumer research. Attains depth in a few areas while also providing a framework in which to situate other substreams of research. Uses ethnography, semiotics, literary analysis, and other interpretive methods to examine topics such as brand and store loyalty, atmospheric and shopping dynamics, creation of brand meanings, and other marketplace behaviors.

Leeds School of Business | Marketing

MKTG-7825 (3) Doctoral Seminar: Empirical Models in Marketing

Presents state-of-the-art empirical modeling techniques (both reduced-form and structural) used by marketing scientists, as well as discuss the key findings generated from major empirical studies. Acquaint the class participants with the systematic process of conducting rigorous empirical marketing research, enable them to read and critically review empirical papers in leading marketing journals and, ultimately, start doing independent empirical research. Prereq., a graduate course in regression.

Leeds School of Business | Marketing

MKTG-7830 (3) Doctoral Seminar: Dissertation Research

Assists doctoral students in integrating courses and fields of study in order to be able to apply knowledge and skills to problems in marketing. Gives special attention to development of thesis topics.

MKTG-8820 (1-6) Doctoral Seminar: Special Topics

Studies marketing literature on a topic or topics selected by instructor. Examples include marketing history, international marketing management, marketing environment, marketing of high technology products, and marketing models.

MKTG-8900 (1-3) Independent Study

Requires consent of instructor under whose direction study is taken. Departmental form required.

MKTG-8990 (1-10) Doctoral Thesis



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MUEL

MUEL-1081 (3) Basic Music Theory

Introduction to music notation, meter and rhythm, scales, intervals, triads, seventh chords, fundamentals of harmonic progression, voice leading, aural skills, and composition. For nonmusic majors who have little or no previous background in the subject. Formerly EMUS 1081. Prerequisites: Restricted to non-College of Music majors only.

[College of Music](#) [Elective Music](#)

MUEL-1115 (1) Piano Class 1

Introduces the keyboard and music reading for nonmusic majors with no prior keyboard experience. Studies very easy classical and pop repertoire. Prereq., no prior keyboard experience or instructor consent. Formerly EMUS 1115. Prerequisites: Restricted to non-College of Music majors only.

[College of Music](#) [Elective Music](#)

MUEL-1125 (1) Piano Class II

Continuation of MUEL 1115. Focuses on development of music reading. Studies technical patterns, easy classical and pop repertoire, and improvisation. Prereq., MUEL 1115. Restricted to non-College of Music majors only. Formerly EMUS 1125. Prerequisites: Restricted to non-College of Music majors only.

[College of Music](#) [Elective Music](#)

MUEL-1145 (2-4) Guitar Class

A systematic study of the beginning literature and technique of the classical guitar with an emphasis on reading music. Designed for nonmusic majors with no prior musical experience. Restricted to non-College of Music majors only. Formerly EMUS 1145. Prerequisites:

Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-1155 (2) Intermediate Guitar

Studies the intermediate literature and technique of the classical and popular guitar. Emphasis on reading standard notation and chord charts. Designed for non-music majors. May be repeated up to 6 total credit hours. Prereq., MUEL 1145 or instructor consent. Restricted to non-College of Music majors only. Formerly EMUS 1155. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated up to 6 total credit hours. Recommended prereq., ability to read music. Formerly EMUS 1184. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-1416 (2) Introduction to Hand Percussion

Studies the literature and technique of hand percussion. Emphasizes African and Latin percussion techniques. Designed for non-music majors. May be repeated up to 6 total credit hours. Restricted to non-College of Music majors only. Formerly EMUS1416. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-1832 (3) Appreciation of Music

Provides a basic knowledge of primarily Western music literature and development of discriminating listening habits. Restricted to nonmusic majors. Formerly EMUS 1832. Approved for arts and sciences core curriculum: literature and the arts. Offered fall and spring. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2091 (2) Intro to Audio Recording

Introduces and explores basic concepts in audio recording from microphones to digital audio workstations. Also focuses on development of critical listening skills. Restricted to non-College of Music majors only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2184 (1) Voice Class

Continuation of MUEL 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., MUEL 1184. Restricted to non-College of Music majors only. Formerly EMUS 2184. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2752 (3) Music in American Culture

Offers a stylistic and historical examination of trends that have influenced present-day music in the U.S. Formerly EMUS 2752. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2772 (3) World Musics

Highlights music outside Western art tradition, using current ethnomusicological materials. Spring semester focuses on musical cultures of the Americas, Africa, and Europe; fall semester focuses on musical cultures of Asia and Oceania. May be repeated up to 6 total credit hours. Formerly EMUS 2772. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2842 (3) American Musical Theatre

Provides an overview of the role of musical theatre in U.S. culture, emphasizing the 20th century Broadway musical. Restricted to non-College of Music majors only. Formerly EMUS 2842. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2852 (3) Music of the Rock Era

Examines popular music, concentrating on the U.S. after 1950. Considers precursor styles (e.g., blues folk) and contributions to the new rock style; discusses the evolution of rock style from 1960 through the 1990s. Formerly EMUS 2852. Approved for the arts and sciences core curriculum: literature and the arts. Offered spring only. Prerequisites: Restricted to non-College of Music majors only.

College of Music | Elective Music

MUEL-2862 (3) American Film Musical, 1926-1954

Examines the development of filmed musicals from the beginning of sound movies through the Golden Age of Musicals. Emphasizes analysis and relationships of characters, songs, and incidental music. Restricted to non-College of Music majors only. Formerly EMUS 2862. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

MUEL-2872 (3) Music in the Rock Era: Special Topics in Heavy Metal

Explores, discuss, debate and develop deeper understanding of Heavy Metal. Included are study of musical style characteristics and lyrical content, innovative performers, unifying elements of Heavy Metal culture and the diversity within it, and its role in the larger Rock and societal contexts. Issues of gender, religion, and sexuality in the Heavy Metal construct are also discussed. Restricted to non-College of Music majors only. Prerequisites: Restricted to non-College of Music majors only.

MUEL-3051 (2) Basic Composition

Introduces the processes, materials, and forms of composition through the writing and performance of short musical works. Open to any student who already has rudimentary musical knowledge. Restricted to non-College of Music majors only. Formerly EMUS 3051. Prerequisites: Restricted to non-College of Music majors only.

MUEL-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events, and people most important to its evolution. For nonmusic majors. Formerly EMUS 3642. Offered fall and spring. Prerequisites: Restricted to non-College of Music majors only.

MUEL-3772 (3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course.

MUEL-3822 (3) Words and Music

Explores the interaction between words and music in song. Students will consider how such features as rhyme, rhythm, tone, and the connotations of particular words contribute to meaning in poetry; how rhythm, tempo, dynamics, mood, and instrumentation contribute to meaning in music; and how words and music coalesce in song to make a new meaning. Restricted to non-College of Music majors only. Formerly EMUS 3822. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

MUEL-3832 (3) Music in Literature

Addresses literature that seeks either to explore the meaning of music or to make music out of words. Students will consider how musical concepts and techniques can be incorporated into poetry and prose, and will analyze the roles that writers have attributed to music in society, politics, and the life of the individual. Restricted to non-College of Music majors only. Formerly EMUS 3832. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to non-College of Music majors only.

MUEL-3872 (3) Music in the Rock Era: Special Topics in Heavy Metal

Explore, discuss, debate and develop deeper understanding of Heavy metal. Included are study of musical style characteristics and lyrical content, innovative performers, unifying elements of Heavy Metal culture and the diversity within it, and its role in the larger Rock and societal contexts. Issues of gender, religion, and sexuality in the Heavy Metal construct area also discussed.

MUEL-4012 (3-6) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Restricted to non-College of Music majors only. Formerly EMUS 4012. Prerequisites: Restricted to non-College of Music majors only.

MUEL-4081 (3) Introduction to Music Technology

Surveys the various tools and techniques in the field of music technology. Topics include an introduction to basic synthesis, musical instrument digital interface (MIDI) sequencing, audio sequencing, digital signal processing, music notation, and a historical perspective on electronic music. For non-music majors only. Prerequisites: Restricted to non-College of Music majors only.

MUEL-4121 (3) Topics in Music Technology

Exploration of issues, techniques and tools of music technology. Topics vary from term to term and may include: interactive system for performance, teaching, and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures and work sessions will support student projects. Prereqs., MUSC 4081 or MUEL 4081 or instructor consent required. For non-music majors only. Prerequisites: Restricted to non-College of Music majors only.



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject Number

MUSC

MUSC-1081 (3) Intensive Music Theory

Introduces tools used in notating, performing, creating, and listening to music. Coreq., MUSC 1121. Open to music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-1101 (2) Semester 1 Theory

Introduces the fundamentals of diatonic harmony and voice leading, focusing on four-voice writing and analysis of excerpts from music literature. For music majors only. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-1111 (2) Semester 2 Theory

Continuation of MUSC 1101. Covers principles of harmony and voice leading, using all common diatonic triads and seventh chords. Introduces secondary dominants, modulation, contrapuntal chord functions, and elementary structural analysis of excerpts from music literature. Prereq., MUSC 1101. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1101 or 1081. Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-1121 (1) Aural Skills Lab, Semester 1

Focuses on sight singing, rhythm, and dictation of diatonic melodies in major and minor keys (treble, alto, and bass clefs). Covers identification of scale types, intervals, triads, and dominant seventh chords. Studies harmonic dictation using chords from MUSC 1101. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

MUSC-1131 (1) Aural Skills Lab, Semester 2

Acquaints students with sight singing in major and minor keys (treble, alto, tenor, and bass clefs). Includes dictation of one- and two-voice examples. Studies harmonic dictation using vocabulary from MUSC 1111. Considers detection of pitch and rhythm errors in performed examples. Prereq., MUSC 1121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 1121. Restricted to College of Music undergraduate students only.

MUSC-1325 (1) Piano Sight Reading

Studies techniques for improving sight-reading skills at the keyboard, with practical work in solo, ensemble, and choral literature. Also covers score reading and transposition. Restricted to piano majors instructor consent. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

MUSC-1326 (1) Guitar Musicianship

Activities in sight-reading, fretboard harmony and comprehension of harmony and texture. Some work will be tied to the repertoire being studied in studio lessons. Open only to students with an emphasis on guitar performance in their degree plan. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-1544 (1) Italian Diction

Designed for the understanding of lyric Italian diction, the international phonetic alphabet, and its application to classical singing. Required for freshmen BM voice majors. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-1554 (1) English Diction

Designed for the understanding of lyric English diction, the international phonetic alphabet, and its application to classical singing as well as various musical styles of English classical voice literature. Prereq., MUSC 1544. Restricted to College of Music majors only. Required for Freshmen BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-1802 (3) Introduction to Musical Styles and Ideas

Introduces the study of music including bibliographic, listening, score reading, critical reading, and writing skills; music terminology; a survey of selected music genres (symphonic and chamber music); and building of general music repertory. Offered fall only.

Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Musicology

MUSC-2071 (2) Instrumentation

Introduces and studies the instruments of the orchestra and problems of scoring for diverse choirs and full orchestra. Prereqs., MUSC 2101 and 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2081 (2) Prepared for the Soundcheck

Provides an overview of the recording process from the performer's perspective from soundcheck through final mastering. Uses recorded material from in-class sessions. Examines differing approaches to recording as well as current technologies. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2091 (2) Recording Techniques

Provides hands-on training in various audio recording techniques, acoustics, and sound reinforcement, studio maintenance, and troubleshooting. Real-world experience is gained through individual recording projects and College of Music events. Prereq., MUSC 2081 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-2101 (2) Semester 3 Theory

Continuation of MUSC 1111. Reviews secondary dominants, secondary leading-tone chords, and modulation. Covers dissonance and chromaticism, including modal mixture, seventh chords with added dissonance, Neapolitan sixth chord, and augmented sixth chords. Provides structural analysis of musical excerpts. Prereq., MUSC 1111. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Theory and Composition

MUSC-2103 (3) Introduction to Music Education

Provides an overview of basic principles and practices of the music education profession. Explores public school music teaching through class discussions, directed observations, and a supervised field experience. Offered fall only. Prerequisites: Restricted to College of

Music undergraduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-2111 (2) Semester 4 Theory

Continuation of MUSC 2101. Focuses on advanced chromaticism including modal mixture, altered dominants, voice leading, and chromatic harmony in larger contexts. Examines impressionism and jazz. Also involves composition projects. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2101. Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-2121 (1) Aural Skills Lab, Semester 3

Continuation of MUSC 1131. Studies sight singing of chromatic melodies in major and minor keys (in four clefs). Includes dictation of one- through three-voice examples. Studies harmonic dictation using vocabulary from MUSC 2101. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 1131. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-2131 (1) Aural Skills Lab, Semester 4

Continuation of MUSC 2121. Studies sight singing of chromatic and atonal melodies. Includes dictation of one- through three-voice examples. Identifies sonorities studied in MUSC 2111. Considers detection of pitch and rhythm performance errors. Prereq., MUSC 2121. Restricted to College of Music majors only. Offered spring only. Prerequisites: Requires prerequisite course of MUSC 2121. Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-2325 (2) Applied Harmony for the Keyboard

Provides an intensive study and application of the harmonic structure of music in a variety of keyboard skills: figured bass realization, chord progressions, harmonization, improvisation, transposition, on-sight harmonic analysis, and playing by ear. Prereqs., MUSC 1111, 1131, and 1325. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Keyboard](#)

MUSC-2365 (2) Introduction to Accompanying

An overall study in the art of working with instrumentalists and singers including repertoire and orchestral reductions. Requires performance with a student instrumentalist or singer to be critiqued and coached by class and instructor. Prereq., piano major or instructor consent. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Keyboard](#)

MUSC-2366 (2) Guitar Accompanying

Survey of accompanying repertoire for guitar with solo instruments (flute, violin, voice, etc.), including introductory work in basso continuo, playing/improvising from chord charts, and arranging accompaniments from musical scores. Prereq., MUSC 1326. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Choral and Instrumental Music](#)

MUSC-2608 (1) Alexander Technique

Investigates the discoveries and writings of F. M. Alexander regarding kinesthetic perception and coordination. Applies these contexts to specific musical activities. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Interdepartmental Courses](#)

MUSC-2772 (3) World Musics

Study of music outside western art tradition, using current ethnomusicological materials and methodologies. Spring semester focuses on musical cultures of Africa, the Americas, and Europe; fall semester focuses on musical cultures of Asia and Oceania. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Musicology](#)

MUSC-2782 (3) World Musics Survey--Africa, Europe, and the Americas

Use current ethnomusicological materials and methods in the study of music outside the Western art tradition. Usually taught in the spring, MUSC 2782 focuses on music cultures of Africa, Europe, and the Americas. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Musicology](#)

MUSC-2918 (2) Building Your Music Career

Students acquire the practical skills they need to build their career as professional musicians, as well as explore the many options for putting their music education to work in the marketplace. Students will also explore the state of live music-making today and explore ways to maintain relevance for themselves and their art in an ever-changing world. Formerly MUSC 4918. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Entrepreneurship](#)



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

MUSC

MUSC-2988 (1) Introduction to Music Research

Introduces music research and writing skills to provide tools necessary for successful composition of formal research papers. Applies interests and curricular goals to specific topics of student choice. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Interdepartmental Courses](#)

MUSC-2997 (0) Sophomore Proficiency

To be completed by the second semester of the sophomore year. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Theses and Recitals](#)

MUSC-3013 (1) String Class

For music education majors with choral/general emphasis. Develops basic performance skills on two or more string instruments. Addresses teaching strategies and other specialized topics related to string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) | [Music](#) | [Music Education](#)

MUSC-3023 (1) Woodwind Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students

only.

College of Music Music Music Education

MUSC-3033 (1) Brass Class

For music education majors with choral or choral/general emphasis. Develops basic performance skills on two or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Music Education

MUSC-3051 (2) Beginning Composition

For noncomposition majors. Introduction to the craft of musical composition with analysis and writing in various styles. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-3061 (2) Jazz Improvisation I

Develops skills in jazz improvisation through practical application of chord/scale relationship, transcription, repertoire, and analysis. Open to all instruments. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-3071 (2) Jazz Improvisation II

Continues and expands upon the material presented in MUSC 3061. Reinforcement of ability to create an improvised melody in a range of harmonic contexts including blues, bebop, modal jazz, free jazz, and other styles. Prereq., MUSC 3061 or instructor consent. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-3081 (3) Jazz Theory and Aural Foundations

Presents the grammar and syntax of jazz. Acquaints the student with the language of jazz improvisation and various jazz styles. The musician's most valuable tool---the ear---is developed through an in-depth analytical study of jazz masters through harmonic dictation/identification. Prereq., MUSC 2101. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-3133 (2) Teaching General Music I

Provides an overview of general music teaching with emphasis on developmentally appropriate strategies and materials. Required for all music education majors as partial fulfillment of course work leading to K-12 music licensure. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3153 (2) Teaching Woodwind Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more woodwind instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate woodwind instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-3163 (2) Teaching String Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more string instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate string instruction. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

MUSC-3176 (2) Conducting 1

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-3186 (2) Conducting II

Introduces conducting and rehearsal techniques. Coreq., performance participation in the appropriate ensemble (band, choir, or orchestra). Prereq., MUSC 3176. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-3193 (2) Vocal Pedagogy and Literature for Young Voices

Provides an overview of vocal anatomy/function, care of the voice, vocal repertoire, teaching strategies, and other specialized topics related to singing instruction in both private studio and public school choral settings. Fall section for instrumentalists; spring section for vocalists. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Music Education

MUSC-3223 (2) Teaching Brass Instruments

For music education majors with instrumental or instrumental/general emphasis. Develops basic performance skills on three or more brass instruments. Addresses teaching strategies and other specialized topics related to beginning and intermediate brass instruction. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-3253 (2) Jazz Techniques for the Music Educator

Prepares the music educator for successful experiences teaching jazz at the secondary level. Students gain insights into performance and rehearsal techniques for the instrumental jazz ensemble. Explores approaches for teaching jazz theory, improvisation, and selecting literature for young students. Own instrument required for certain classes. Recommended prereqs., MUSC 1111 and 2103. Restricted to College of Music majors only. Offered spring only.

MUSC-3273 (2) String Pedagogy and Literature

Examines instructional methods/materials and pedagogical approaches appropriate for beginning to advanced string students in private studio, small ensemble, or large ensemble contexts. Topics may include group teaching strategies, as well as contemporary approaches including Rolland and Suzuki. Recommended prereqs., MUSC 2103 and 3163. Restricted to College of Music majors only. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-3345 (2) Piano Pedagogy 1

Discusses teaching philosophies, objectives, and procedures. Examines and evaluates methods and materials. Studies practical aspects with which the private teacher is concerned. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-3355 (2) Piano Pedagogy 2

Materials and techniques for teaching piano with a focus on the intermediate level student. May be repeated up to 12 total credit hours. Restricted to College of Music majors only. Offered only in spring of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-3363 (2) Marching Band Techniques

Helps develop the skills needed to administer and teach all aspects of a contemporary high school marching band. Includes drill conception and design, instruction, organization, and administration. Prereqs., MUSC 2103 and EMUS 1287. Offered fall only. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-3444 (1) French Diction

Designed for the understanding of lyric French diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of French classical vocal literature. Prereq., MUSC 1554. Recommended prereq., MUSC 3464. Required of Junior BM voice majors. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Voice](#)

MUSC-3445 (1) Practicum in Piano Teaching: Elementary Level

Provides practical experience teaching piano at the elementary and early intermediate levels under faculty supervision. May be repeated up to 2 total credit hours. Recommended prereqs., MUSC 3345, 3355. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Keyboard](#)

MUSC-3464 (1) German Diction

Designed for the understanding of lyric German diction, the international phonetic alphabet, and its application to classical singing, as well as various musical styles of German classical vocal literature. Prereq., MUSC 1554. Restricted to College of Music majors only. Required of sophomore BM voice majors. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Voice](#)

MUSC-3642 (3) History of Jazz

Studies the distinctly American art form of jazz music from its origins to the present, including the various traditions, practices, historical events and people most important to its evolution. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Musicology](#)



Courses

Search by College, Department & Category

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All

Search by Course Number

Subject Number

MUSC

MUSC-3772(3) West African Music and Culture in Ghana

Provides hands-on and experiential enrichment for students to interact at several levels with a local community in Ghana. Classroom lectures will be combined with direct participation in drumming and dancing, field trips to participate in festivals and court ceremonies, field trips to kente weaving village, adinkra cloth making, wood carving villages, and museums. Prereq., MUSC 2782/MUEL 2772. Restricted to sophomore, non-College of Music majors only or instructor consent required. MUSC 3772 and MUEL 3772 are the same course. Prerequisites: Restricted to sophomore non-College of Music majors only.

[College of Music](#) [Music](#) [Musicology](#)

MUSC-3802 (3) History of Music 1

Surveys Western art music with stylistic analysis of representative works from all major periods through the Baroque. See also MUSC 3812. Prereq., MUSC 2111. Prerequisites: Requires pre-requisite course of MUSC 2111. Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Musicology](#)

MUSC-3812 (3) History of Music 2

Surveys Western art music with stylistic analysis of representative works from all major periods after the Baroque. See also MUSC 3802. Prereq., MUSC 2111. Restricted to College of Music majors only. Prerequisites: Requires prerequisite course of MUSC 2111. Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Musicology](#)

MUSC-3997 (1) Junior Recital

Prereq., MUSC 2997. Prerequisites: Restricted to Music majors or graduate students only.

College of Music Music Theses and Recitals

MUSC-4001 (2) New Musical Styles and Practices

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered every other year. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-4011 (2) 16th Century Counterpoint

Studies the style of Palestrina and his contemporaries through analysis, species counterpoint exercises, and composing in the style. Prereqs., Musc 2111 and 2131. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-4012 (3) African Music

Studies the musics, dances, and cultures of various peoples of Africa. Includes African diaspora music and Afro-pop. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Musicology

MUSC-4021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including invention, suite, and fugue. Provides a foundation in species counterpoint; stresses analysis and composing in the style. Prereqs., MUSC 2111 and 2131. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-4031 (2) Jazz Arranging 1

Study of notation, score layout, transpositions, basic harmonic and melodic analysis, basic chord voicings, and composition for a small and large jazz ensemble. Use of notation software such as Finale or Sibelius. Prereqs., MUSC 2111 and 2131. Recommended prereq., MUSC 3081. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Theory and Composition

MUSC-4041 (2) Orchestration

Studies advanced orchestration techniques through score analysis and student projects. Prereq., MUSC 2071 or instructor consent. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4061 (2) Tonal Analysis

Surveys tonal analytical techniques and forms of tonal music, including binary forms, sonata forms, ternary forms, rondo (and others) through study of selected works from the 18th and 19th centuries. Prereqs., MUSC 2111 and 2131. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4071 (2) Post-Tonal Theory and Analysis

Focus on theory and analysis of post-tonal literature pre-1945. Prereqs., MUSC 2111 and 2131. Offered every other fall. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4078 (1) Piano Technician for Pianists

Familiarizes pianists with the development of the modern grand piano, its construction, and the proper terminology of parts and specifications. Trains pianists in minor repairs and adjustments of the grand piano action, and in minor tuning tasks. Recommended restriction, piano majors. Restricted to College of Music majors only. Same as MUSC 5078. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-4081 (3) Introduction to Music Technology

Topics include basic synthesis, musical instrument digital interface (MIDI) sequencing, and music notation by computer. Offered fall and spring. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4091 (2) Jazz Arranging 2

Continuation and expansion of studies in MUSC 4031. Survey and analysis of major composers and arrangers of the idiom. Course focuses on creating several arranging projects for a large jazz ensemble. Prereq., MUSC 4031. Recommended prereq., MUSC 3081. Restricted to College of Music majors only. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4101 (1-3) Theory and Aural Skills Review

Reviews tonal harmony, voice leading, and essential aural skills. Includes diatonic triads and seventh chords, modulation, chromaticism, and structural analysis of representative compositions. Prepares graduate students for more advanced work in music theory. Students may register for aural skills only (1 credit), theory only (2 credits), or both theory and aural skills (3 credits). May not be taken pass/fail. For graduate students only. Offered summer and fall. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

MUSC-4103 (1) Introduction to Student Teaching

Represents the first half of the professional internship year. Familiarizes students with the schools and music programs in which they plan to student teach. Music placements may consist of elementary and high school, elementary and middle school, or middle school and high school. Prereqs., MUSC 4113, 4313, or 4443; and EDUC 3023. Prerequisites: Requires prerequisite courses of MUSC 4113, 4313, or 4443 and EDUC 3023 or 4023. Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-4111 (2) Composing at the Computer

Discover strategies and techniques for generating and manipulating sound at the computer. Student projects will include compositions, soundscapes, ambient environments, and soundtracks for multimedia. Available to students without prior experience with computer music or composition. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4112 (3) Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Prereq., MUSC 2772. Restricted to junior or senior College of Music majors only. Prerequisites: Requires pre-requisite class of MUSC 2772. Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4113 (3) Teaching General Music 2

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Prereqs., MUSC 2103 and 3133. Restricted to College of Music majors only. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-4121 (3) Topics in Music Technology

Exploration of issues, techniques, and tools of music technology. Topics vary from term to term and may include: interactive systems for performance; teaching and learning; computer music instrument design; digital synthesis and signal processing; music in intermedia; sound design and analysis. Lectures on work sessions will support student projects. May be repeated up to 9 total credit hours. Prereq., MUSC 4081. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-4133 (3) Student Teaching Practicum

Offers practice teaching under the guidance of a master music teacher. Secondary level. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-4142 (3) American Indian Music

Examines Native North American musical cultures, with an emphasis on music as an integral part of religious expression and community life. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

[College of Music](#) [Music](#) [Musicology](#)

MUSC-4143 (2) Developing Children's Choirs

Examines the musical skills, teaching techniques, and administrative procedures necessary for developing a children's choir. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5143. Offered fall of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Education](#)



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All

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MUSC

MUSC-4152 (3) East Asian Music

Surveys the development of music in Japan, China and Korea through the in-depth study of particular styles of traditional music. The course emphasizes the study of music and culture, particularly music's relationship to religion, politics, language, literature, dance and theatre. Recommended prereq., MUSC 2772. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Musicology](#)

MUSC-4153 (1) Percussion Class and Pedagogy

Required of all music education majors. Presents knowledge and skills necessary for music educators to teach young students, including a general understanding of the techniques used in playing and teaching percussion instruments in the school music program. Offered fall only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-4163 (2) Choral Literature for School Ensembles

Examination of literature, materials, and methods appropriate for teaching choral music in secondary schools. Prereq., MUSC 2103. Restricted to College of Music majors only. Offered fall of odd-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-4168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis

on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Recommended prereqs., MUSC 2772 or 2782 or 4112. Same as MUSC 5168. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Theory and Composition

MUSC-4191 (2) Advanced Recording

Study of advanced recording techniques and concepts beyond those covered in MUSC 2091 involving multiple microphones for ensemble concerts and recording sessions within and outside of the College of Music. Prereq., MUSC 2091. Restricted to College of Music majors only. Offered spring of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Theory and Composition

MUSC-4193 (1) Student Teaching Seminar

Required for all music student teachers. Addresses topics of concern to beginning teachers including classroom management, interpersonal skills, legal issues, job search strategies, and teaching portfolio development. Prereq., MUSC 4103. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4203 (1) Music Methods Practicum

Taken concurrently with either MUSC 4113, 4313, or 4443. Provides students with opportunities to observe and practice the use of various teaching techniques and relate them to concepts presented in the methods course. Students consult with the instructor to determine appropriate placements in schools. Prereq., MUSC 2103. Coreq., MUSC 4113, 4313, or 4443. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4255 (2) Service Playing Techniques

Study of church music for liturgical and non-liturgical denominations; includes hymn playing, anthem accompaniments, basics of conducting from the organ console and improvisation, and selection of organ music appropriate to the requirements of the church year and other special services. Same as MUSC 5255.

College of Music | Music | Keyboard

MUSC-4285 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4295. Same as MUSC 5285.

College of Music Music Keyboard

MUSC-4288 (2-3) Macintosh-based Web Server Fundamentals for Musicians and Educators

Designed for music students. Teaches concepts and skills necessary to develop, host, and maintain Macintosh-based web servers and to create and serve multimedia files including video, MP3, MIDI, and PDF.

College of Music Music Interdepartmental Courses

MUSC-4295 (3) Organ Survey

Survey of organ repertoire and the history of organ building from the sixteenth century to the present. See also MUSC 4285. Same as MUSC 5295.

College of Music Music Keyboard

MUSC-4313 (3) Teaching Choral Music

Examines choral music curricula, instructional materials, and teaching techniques appropriate for secondary choral settings. Also addresses administrative strategies for choral music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5313. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Music Education

MUSC-4325 (2) Keyboard Literature 1

Surveys keyboard music from 1600 to 1830. Restricted to College of Music majors only. Offered fall semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Keyboard

MUSC-4335 (2) Keyboard Literature 2

Surveys keyboard music from 1830 to the present. Restricted to College of Music majors only. Offered spring semester of even-numbered years. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Keyboard

MUSC-4405 (2) Basso-Continuo Accompaniment

Studies the history, theory, and practice of Basso-continuo accompaniment. Provides practical instruction in realizing harmony from a given bass line (figured or unfigured), projecting affect, and creating dynamics at the harpsichord. Emphasizes individual cognition and creativity. Recommended prereqs., MUSC 2325 and PMUS 1586. Same as MUSC 5405. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Keyboard

MUSC-4443 (3) Teaching Instrumental Music

Examines instrumental music curricula, instructional materials, and teaching techniques appropriate for rehearsal, class, and lesson settings. Also addresses administration strategies for instrumental music programs. Prereq., MUSC 2103. Restricted to College of Music majors only. Same as MUSC 5442. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4583 (2) Inclusive Music Classroom

Surveys strategies necessary for teaching music to all students, including those with special needs. Offered fall of even-numbered years. Prereqs., MUSC 2103 and 3133. Recommended prereq., MUSC 4113. Restricted to College of Music majors only. Same as MUSC 5583. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Music Education

MUSC-4608 (1) Advanced Studies in the Alexander Technique

Continue of MUSC 2608 with greater concentration on utilizing Alexander principles in specialized activity. Prereq., MUSC 2608 or instructor consent. Prerequisites: Requires prerequisite course of MUSC 2608. Restricted to College of Music undergraduate students only.

College of Music | Music | Interdepartmental Courses

MUSC-4712 (3) Renaissance Music

Provides repertory and analysis of polyphonic music 1400-1600. Prereq., MUSC 3802. Restricted to College of Music majors only. Same as MUSC 5712. Prerequisites: Requires pre-requisite class of MUSC 3802. Restricted to College of Music undergraduate students only.

College of Music | Music | Musicology

MUSC-4752 (3) Women in Music

Examines the role of women as creators and performers of Western Music. Explores related issues in musicology, including canon formation, reception history, and feminist aesthetics. Restricted to junior or senior College of Music majors only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

College of Music | Music | Musicology

MUSC-4772 (3) History of Opera

Examines representative operas from the 17th century. Emphasizes historical and stylistic analysis and surveys related musicological literature. Prereq., MUSC 3812. Restricted to College of Music majors only. Same as MUSC 5772. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-4802 (3) Studies in 20th Century Music

Offers intensified work in history of music in the 20th century. Topics vary from year to year. Prereq., MUSC 3812. Restricted to junior or senior College of Music majors only. Same as MUSC 5802. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.

MUSC-4852 (3) 17th and Early 18th Century Music

Examines music and writings about music from the Baroque era. Emphasizes historical and stylistic analysis and current musicological literature. Prereq., MUSC 3812 or instructor consent. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-4872 (3) Late 18th and 19th Century Music

Examines music and writings about music during the Classic and Romantic eras of the Western tradition, 1750-1900. Emphasizes historical and stylistic analysis and current musicological research. Recommended prereq. or coreq., MUSC 3812. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

MUSC-4892 (3) Latin American Music

Explores music of cultures south of the United States, emphasizing the relationships of music and culture in folk, popular, and art styles. Same as MUSC 5892. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Music majors only.



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MUSC

MUSC-4908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Music Entrepreneurship](#)

MUSC-4957 (1-4) Senior Thesis

Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Theses and Recitals](#)

MUSC-4958 (2) Community Performances

Designed for the aspiring professional performer. Through classroom theory and off-campus application, acquire skills in programming for and communicating with diverse audiences, marketing & PR, and new paradigms of concert presentation. Will result in an actual musical presentation in the community. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Music Entrepreneurship](#)

MUSC-4988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and

case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 5988.

College of Music Music Music Entrepreneurship

MUSC-4997 (1) Senior Recital

Prereq., MUSC 3997. Prerequisites: Requires pre-requisite class of MUSC 3997. Restricted to College of Music undergraduate students only.

College of Music Music Theses and Recitals

MUSC-5002 (3) Proseminar in Historical Musicology

Prepares students to pursue independent research in the history of music. Meeting as a seminar, the course focuses on the nature of evidence, methods and tools of research, and theoretical or historiographic issues. Prerequisites: Restricted to Graduate Students only.

College of Music Music Musicology

MUSC-5011 (2) 16th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including FREE, TWO-and THREE-part imitative counterpoint in the style of Palestrina. Provides a foundation in species counterpoint, working towards free counterpoint; stresses analysis and composing in 16th-century styles. Prerequisites: Restricted to College of Music graduate students only.

College of Music Music Theory and Composition

MUSC-5012 (3) West African Music and Dance

Studies musical and dance traditions and current practices. Prereq., MUSC 4012 or instructor consent. Same as DNCE 5054. Prerequisites: Restricted to Graduate Students only.

College of Music Music Musicology

MUSC-5021 (2) 18th Century Counterpoint

Provides a stylistic study of main contrapuntal genres of the period including INVENTION, SUITE, and FUGUE. Provides a foundation in species counterpoint; stresses analysis and composing in the styles. Prerequisites: Restricted to College of Music graduate students only.

College of Music Music Theory and Composition

MUSC-5026 (2) Percussion Literature

In-depth investigation of major original solo works for percussion, significant ensemble literature including chamber and large ensembles, and selected transcriptions. Prereqs., graduate standing in music and instructor consent.

College of Music | Music | Choral and Instrumental Music

MUSC-5036 (2) Brass Literature

Investigates major original solo works for trumpet, horn, trombone, euphonium, and tuba, and ensemble literature including chamber and large settings. Offered every other spring semester.

College of Music | Music | Choral and Instrumental Music

MUSC-5041 (2) Advanced Orchestration

Provides an advanced study of orchestration techniques through score analysis and student projects. Offered fall only.

College of Music | Music | Theory and Composition

MUSC-5061 (3) Advanced Tonal Analysis

Surveys tonal analytical techniques. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5071 (3) Post-tonal Theory and Analysis I

Focuses on theory and analysis of post-tonal literature pre-1945. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Offered fall and every other spring. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5078 (1) Piano Technician for Pianists

Same as MUSC 4078. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Interdepartmental Courses

MUSC-5081 (3) Applications in Music Technology

Presents advanced strategies for applying computer technology in several musical disciplines. Emphasizes the use of technology in composition, music theory, and music education. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Theory and Composition

MUSC-5091 (3) Contemporary Jazz Theory

Studies contemporary approaches to jazz improvisation and composition. Analysis of innovative composition and improvisation and strategies for integration of the material into a personal vocabulary are explored. Prereq., MUSC 3081. Offered spring only.

College of Music | Music | Theory and Composition

MUSC-5103 (3) Teaching General Music

Provides an in-depth examination of teaching and learning processes in the elementary general music classroom, based on the integration of child development and musical development theories with content and delivery skills appropriate for K-5 general music classrooms. Students implement and evaluate music instruction, design curricular projects, and build a repertoire of vocal, instrumental, and speech-based arrangements. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music | Music | Music Education

MUSC-5106 (2) Guitar Literature

An analytical and historical survey of the repertory of the guitar and its antecedents from the renaissance to the present day. For graduate students. Same as MUSC 4106.

College of Music | Music | Choral and Instrumental Music

MUSC-5112 (3) Proseminar in Ethnomusicology

Examines the definition, scope, and methods of ethnomusicology, the discipline that focuses on approaches to the study of music theory, history, and performance practices of world cultures. Restricted to graduate students who have passed or remediated the World Music portion of their Musicology preliminary exams. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Musicology

MUSC-5121 (3) Advanced Topics in Music Technology

Conducts advanced research in techniques and tools of music technology. Topics vary from term to term and may include: user interfaces for computer music; advanced sound design; digital modeling of acoustic sounds; computer-aided analysis of sound; modeling music intelligence in real time. Lectures and work sessions will support student projects. May be repeated up to 9 total credit hours.

Prereq., MUSC 5081 or instructor consent required.

College of Music | Music | Theory and Composition

MUSC-5136 (2) Advanced Conducting

Offers advanced work in conducting. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5142 (3) American Indian Music

Examines Native North American musical cultures, emphasizing music as an integral part of religious expression and community life. Restricted to graduate music majors. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5143 (2) Developing Children's Choirs

Restricted to College of Music graduate students only. Same as MUSC 4143. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Music Education

MUSC-5151 (3) Topics in Music Analysis

Analytical study of a specific topic to be determined by the instructor (e.g., German Lieder, Bartok quartets, tonal rhythm, Schenker, etc). Study published analyses representing a variety of methodologies, and produce original analyses. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Recommended prereqs., MUSC 5061, 5071, as appropriate to topic or instructor consent. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Theory and Composition

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MUSC

MUSC-5156 (2) Symposium in Choral Musi.

Provides an advanced study of choral repertoire by style period. Required of all choral graduate students for a minimum of two semesters. Prerequisites: Restricted to College of Music graduate students only.

[College of Music](#) [Music](#) [Choral and Instrumental Music](#)

MUSC-5168 (3) World Music Theories

Examines music and social elements, rules, and concepts that musicians use to structure and synthesize musical sound, with emphasis on music practices and pedagogies from a variety of world traditions; observing shared principles and making cross-cultural comparisons and investigating a shared (not universal) discourse as well as resources for a new pedagogy that supports the substantive study of global musics. Same as MUSC 4168. Prerequisites: Restricted to College of Music graduate students only.

[College of Music](#) [Music](#) [Theory and Composition](#)

MUSC-5183 (2) Research in Music Teaching

Introduces basic descriptive, experimental, and qualitative research methods, including sampling, design, data collection, and analysis. Students review published music research and conduct one original research study. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

[College of Music](#) [Music](#) [Music Education](#)

MUSC-5215 (1-2) Studies in Piano Teaching

Studies the practical aspects and techniques for teaching piano at the intermediate and advanced levels in pre-college and college settings, as well as teaching group piano at the college level. May be repeated up to 2 total credit hours. Recommended prereqs., MUSC

5305 and 5315. Restricted to graduate piano majors. Prerequisites: Restricted to Graduate Students only.

College of Music Music Keyboard

MUSC-5246 (3) Jazz Improvisation and Analysis

A study of improvisation through melodic and harmonic analysis of jazz compositions, transcriptions, and the study of historic jazz solos as played by jazz masters. Recommended prereq., MUSC 3071. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music Music Choral and Instrumental Music

MUSC-5255 (2) Service Playing Techniques

Same as MUSC 4255.

College of Music Music Keyboard

MUSC-5256 (3) Jazz Studies Administration and Pedagogy

Studies the organization and administration of collegiate jazz programs. Topics include curriculum, program philosophy, teaching techniques, funding, teacher training, and evaluation. Recommended prereq., MUSC 3253. Offered fall only. Prerequisites: Restricted to College of Music graduate students only.

College of Music Music Choral and Instrumental Music

MUSC-5273 (2) Comprehensive String Pedagogy

Comparative study and application of the principles of string teaching. In-depth analysis of individual instrument pedagogy and application to advanced studio and class teaching. Historical survey of major violin, viola, cello, and double bass pedagogues. Includes apprenticeship teaching. Restricted to graduate students. Offered fall of odd-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music Music Music Education

MUSC-5285 (3) Organ Survey

Same as MUSC 4285.

College of Music Music Keyboard

MUSC-5295 (3) Organ Survey

Same as MUSC 4295.

College of Music | Music | Keyboard

MUSC-5305 (2) Piano Pedagogy Group Techniques

Discusses materials and techniques for teaching beginning piano students of various ages in studio and class settings. Special attention given to adult classes. Includes an introduction to educational technology used in group instruction. Offered fall of odd-numbered years.

College of Music | Music | Keyboard

MUSC-5313 (3) Teaching Choral Music

Restricted to graduate students in music education. Same as MUSC 4313. Offered spring only.

College of Music | Music | Music Education

MUSC-5315 (2) Piano Pedagogy: Intermediate Literature

Surveys repertoire at the intermediate level and discusses teaching techniques. Explores issues related to intermediate and advanced piano performance, such as performance anxiety, physical and psychological well-being of the performer, and the development of technique. Introduces educational technology relevant to intermediate teaching. Offered spring of even-numbered years.

College of Music | Music | Keyboard

MUSC-5325 (2) Keyboard Literature 1

Examines areas of style, genre, and performance practice in selected keyboard music from 1600 to 1830. Emphasizes student presentation of specific topic areas. Offered fall semester of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5335 (2) Keyboard Literature 2

Examines areas of style, genre, and performance practice in selected areas of keyboard music from 1830 to the present. Emphasizes student presentation of specific topic areas. Offered spring semester of odd-numbered years.

College of Music | Music | Keyboard

MUSC-5336 (2) Brass Pedagogy

Analyzes pedagogical techniques and philosophies of teaching brass instruments, and examines materials. Offered every other spring semester.

College of Music | Music | Choral and Instrumental Music

MUSC-5345 (2) Research: Piano Literature and Pedagogy

Looks at individual or group research related to piano pedagogy or literature for piano. May be repeated upto 12 total credit hours.

Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5346 (3) Woodwind Pedagogy

Provides the knowledge and skills to teach woodwind instruments in both private studio and collegiate class settings. Considers pedagogical techniques addressing all levels of instruction. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5356 (2) Jazz Studies Practicum

Studies strategies for developing and implementing academic programs in jazz studies. Includes demonstration teaching by class members. Recommended prereq., MUSC 5256. Offered Spring only. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Choral and Instrumental Music

MUSC-5365 (2) Advanced Accompanying

An in-depth study of both vocal and instrumental collaborative repertoire in individually assigned projects, coached by collaborative faculty and others. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5375 (2) Opera Coaching for Pianists

Teaches skills for opera coaches and rehearsal pianists. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-5405 (2) Basso-Continuo Accompaniment

Same as MUSC 4405. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Keyboard

MUSC-5425 (2) Collaborative Literature for Piano with Winds, Brass, and Percussion

Study of all forms of wind, brass and percussion repertoire involving collaboration with piano including sonatas, duos, short pieces and concerti. Focus will be on standard literature and reading and listening assignments will be supplemented by in-class performances and presentations. Prereq., instructor consent. Offered fall only.

College of Music | Music | Keyboard

MUSC-5435 (2) Collaborative Literature for Piano with Strings

Study of all forms string repertoire involving collaboration with piano including sonatas, duos, short pieces and concerti. Focus will be on standard literature and reading and listening assignments will be supplemented by in-class performances and presentations. Prereq., instructor consent. Offered spring only.

College of Music | Music | Keyboard

MUSC-5443 (3) Teaching Instrumental Music

For graduate music education majors. Same as MUSC 4443. Offered spring only.

College of Music | Music | Music Education

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MUSC

MUSC-5444 (2) Vocal Pedagogy

In depth study of the physiology, acoustics, and health aspects of the singing voice. Recommended for all graduate students in voice. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) [Music](#) [Voice](#)

MUSC-5454 (2) Repertory for Young Voices

Survey of the solo repertoire for young voices, the physiological aspects of mutational voices, techniques of vocalizing young voices, and class voice procedure. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) [Music](#) [Voice](#)

MUSC-5464 (2) French Song Literature

Provides an extensive analytical and historical discussion of French song literature styles, from the 12th century to the present.

[College of Music](#) [Music](#) [Voice](#)

MUSC-5484 (2) Graduate Seminar in Vocal Pedagogy

A thorough investigation of the challenges of studio voice pedagogy, including corrective techniques, psychological philosophies, and video analysis of student teaching. Examination and evaluation of comparative methodologies of vocal technique. Prereq., MUSC 5444 or instructor consent required.

College of Music Music Voice

MUSC-5564 (2) German Song Literature

Provides an extensive analytical and historical discussion of German song literature styles, from the 18th century to the present.

College of Music Music Voice

MUSC-5583 (2) The Inclusive Music Classroom

For graduate music education majors. Same as MUSC 4583. Prerequisites: Restricted to Graduate Students only.

College of Music Music Music Education

MUSC-5608 (1) Graduate Studies in the Alexander Technique

Study of the relationship of kinesthetic perception and postural reflexes to physical coordination in performance. Analysis and research regarding Alexander's principles. Prerequisites: Restricted to College of Music graduate students only.

College of Music Music Interdepartmental Courses

MUSC-5642 (3) Jazz History and Literature

Studies musical trends and cultural forces influencing jazz, with analysis of scales, improvisational styles, melodic and motivic variations, transcriptions, and orchestrations from significant periods in its history. Prereq., MUSC 3642 or instructor consent. Offered spring only.

College of Music Music Musicology

MUSC-5666 (2) Chamber Music Literature: Woodwinds

Provides a stylistic-historical survey in various genres from Baroque era to present. May be repeated up to 12 total credit hours. Offered every other spring.

College of Music Music Choral and Instrumental Music

MUSC-5708 (2) Introduction to Music Bibliography and Research

Explores basic informational sources about music and musicians; a study of bibliographic forms, research, and writing techniques employed in music research papers, theses, and dissertations. Required in all master's degree programs. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Interdepartmental Courses

MUSC-5712 (3) Renaissance Music

Provides a repertory and analysis of polyphonic music 1400-1600. Same as MUSC 4712.

College of Music | Music | Musicology

MUSC-5722 (1) Sight-Reading Medieval and Renaissance Music Literature

Provides an opportunity to read through, sing, play, study, and discuss ancient repertoires more intensively than is normally possible in either music history lecture classes, seminars, or chamber music ensembles. Evaluation is based on active participation, out-of-class research, and final in-class group-performance projects. Recommended for graduate students in historical musicology and choral conducting. May be repeated up to 6 total credit hours.

College of Music | Music | Musicology

MUSC-5742 (3) Performance Practice of Early Music

Examines instrumental and vocal performance practices through the 18th century. Topics may vary from year to year. Prerequisites: Restricted to College of Music graduate students only.

College of Music | Music | Musicology

MUSC-5752 (3) Women in Music

Examines the role of women as creators and performers of Western Music. Explores related issues in musicology, including canon formation, reception history, and feminist aesthetics.

College of Music | Music | Musicology

MUSC-5762 (3-4) History of Choral Literature

Provides a seminar in analysis of musical style and history of choral repertory . Those wishing review of literature and repertory may enroll for 4 credit hours.

College of Music | Music | Musicology

MUSC-5772 (3) History of Opera

Examines representative operas from the 17th century. Emphasizes historical and stylistic analysis and surveys related musicological literature. Restricted to graduate students. Same as MUSC 4772.

College of Music | Music | Musicology

MUSC-5802 (3) Studies in 20th Century Music

Same as MUSC 4802. Prereq., graduate standing.

College of Music | Music | Musicology

MUSC-5808 (1) Advanced Alexander Technique for Graduate Students

Continues investigation of the benefits of Alexander's principles regarding mind-body awareness begun in MUSC 5608. Increased emphasis on utilizing principles in specialized activity. Analysis and research regarding musical activities. May be repeated up to 3 total credit hours. Prereq., MUSC 5608 or instructor consent.

College of Music | Music | Interdepartmental Courses

MUSC-5812 (3) Symphonic Literature

Studies literature for orchestra, band, and other symphonic ensembles including pre-Classic, Classic, Romantic, and 20th century.

College of Music | Music | Musicology

MUSC-5822 (3) Ancient and Medieval Music

Surveys sources from the ancient Greeks to the early Christian era and music from the 8th to the 15th century.

College of Music | Music | Musicology

MUSC-5832 (3) Studies in American Music

Offers intensified work in folk, popular, and art music of the United States.

College of Music | Music | Musicology

MUSC-5842 (3) Aesthetics of Music

Surveys various philosophies of music in writings of philosophers, psychologists, sociologists, composers, critics, and historians. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Musicology

MUSC-5852 (3) 17th and Early 18th Century Music

Examines music and writings about music from the Baroque era. Emphasizes historical and stylistic analysis and current musicological literature.

College of Music | Music | Musicology

MUSC-5872 (3) Late 18th and 19th Century Music

May be repeated up to 12 total credit hours. Same as MUSC 4872.

College of Music | Music | Musicology

MUSC-5882 (3) Studies in 18th and 19th Century Music

Meets as a seminar and examines selected topics in Classic and Romantic music, 1750-1900. Topics vary from year to year.

College of Music | Music | Musicology

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MUSC

MUSC-5892 (3) Latin American Music

Restricted to graduate students. Same as MUSC 4892.

[College of Music](#) [Music](#) [Musicology](#)

MUSC-5908 (1-3) Internship in Music Business

Engage with music/music business organizations in the community (for profit or non-profit) to pursue specific tasks or projects relevant to the student's career goals. A minimum of 48 hours is required per semester for one credit. May be repeated up to 3 total credit hours. Recommended prereq., Masters standing. MUSC 4908 and 5908 are the same course. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Music](#) [Music Entrepreneurship](#)

MUSC-5968 (2) Entrepreneurial Ventures in the Arts

Previously Topics in Arts Entrepreneurship, this course prepares students to evaluate opportunities in their specific arts field by analyzing existing arts organizations and then applying entrepreneurial concepts to create new enterprises. Topics for research and discussion include current issues in the arts, introduction to entrepreneurship, preparing a business feasibility study, market information for new ventures, and funding sources. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) [Music](#) [Music Entrepreneurship](#)

MUSC-5988 (3) The Entrepreneurial Artist

Learn the core principles of entrepreneurship, such as idea formation, venture models, opportunity assessment, market analysis, and

strategies for launching a venture, and apply them to their own entrepreneurial ideas. Lectures, projects, entrepreneur interviews, and case studies will culminate in a feasibility study for an original entrepreneurial concept. Recommended prereq., MUSC 4918. Same as MUSC 4998.

College of Music Music Music Entrepreneurship

MUSC-6041 (3) Orchestration since 1940

Studies significant and distinctive orchestration techniques of the 20th century, concentrating on works written since 1940. Restricted to doctoral students.

College of Music Music Theory and Composition

MUSC-6051 (3) Pedagogy of Music Theory

Studies methods and materials for teaching undergraduate music theory, aural skills, and analysis. Prereq., passed general written theory and aural skills prelim exam, or completed remediation.

College of Music Music Theory and Composition

MUSC-6113 (2) Foundations of Music Education

Surveys historical and philosophical bases of contemporary music education. Restricted to graduate students in music education. Offered fall only. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music Music Music Education

MUSC-6133 (2) Comprehensive Musicianship through Performance

Explores curricular models for music education. Emphasizes comprehensive musicianship and standards-based frameworks for curriculum and development. Restricted to graduate students in music education. Offered spring of even-numbered years.

College of Music Music Music Education

MUSC-6193 (1-3) Selected Studies in Music Education

May be repeated up to 12 total credit hours. Prereq., consent of instructor and music education chair. Prerequisites: Restricted to Music or Music Education graduate students only.

College of Music Music Music Education

MUSC-6203 (2) Psychology of Music Learning

Provides an overview of psychological concepts relevant to music teaching and learning. Topics include learning theories, selected individual difference variables (motivation, anxiety, creativity, and personality), physiological structures related to hearing, psychoacoustics, and approaches to examining musical ability (e.g. brain research, music aptitude, and skill acquisition). Restricted to graduate students. Offered spring only.

College of Music | Music | Music Education

MUSC-6213 (2) Assessment of Music Learning

Provides an overview of traditional and contemporary approaches to music assessment. Topics include psychometrics, standardized tests, test construction, grade reports, and student portfolios. Restricted to graduate students in music education. Offered spring of even-numbered years.

College of Music | Music | Music Education

MUSC-6223 (2) Sociology of Music Education

Studies sociological perspectives related to music education. Topics include functions and uses of music; teacher and student role/identity development; social aspects of music performance, and cultural perspectives on music learning. Recommended prereq., MUSC 6113. Restricted to graduate students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Education

MUSC-6233 (2) Pedagogy of Music Teaching and Learning

Explores four topics (reflective/critical thinking, teacher effectiveness, cultural/program contexts, teachers' lives/career development) relevant to long-term teacher development. Includes individualized feedback on teaching. Open to graduate students in music education and performance-pedagogy. Offered spring of odd-numbered years. Restricted to MME+ students in their second or third year of the program. Recommended prereq., MUSC 6113 and/or significant teaching experience.

College of Music | Music | Music Education

MUSC-6325 (2) Seminar in Piano Literature

Provides an intensive study of a selected area of repertoire or history. May be repeated up to 6 total credit hours. Restricted to doctoral students or instructor consent required. Offered fall only. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Keyboard

MUSC-6801 (3) Advanced Topics in Music Theory

Intensive study of a specialized topic in theory and analysis. Students will be guided in critical reading and analysis, class presentations, and independent research. Prereqs., graduate preliminary exams passed, and 6 credit hours of graduate-level theory. Restricted to MUSD and MUAD students. Prerequisites: Restricted to Music (MUSD or MUAD) majors only.

College of Music | Music | Theory and Composition

MUSC-6822 (3) Advanced Studies in Musicology

Intensive study of a specialized topic in musicology. Students will be guided in critical reading, historical or ethnographic issues, analysis, oral presentations, and independent research. May be repeated up to 6 total credit hours. prereq., MUSC 5708. Restricted to MUAD or MUSD majors. Prerequisites: Restricted to Music (MUAD or MUSD) graduate students only.

College of Music | Music | Musicology

MUSC-7046 (3) Seminar in Jazz Literature

Provides advanced study in jazz literature and styles. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires class presentations and a major paper or project. May be repeated up to 6 total credit hours. Recommended prereqs., MUSC 5091 and 5642. Restricted to doctoral students. Offered every other year.

College of Music | Music | Choral and Instrumental Music

MUSC-7103 (3) Historical Research in Music Education

Topics include oral history, archival collections, data verification, and critiquing/publishing research. Students conduct one original research study. May be repeated up to 12 total credit hours. Restricted to doctoral students in music education. Offered spring of even-numbered years.

College of Music | Music | Music Education

MUSC-7113 (3) Quantitative Research in Music Education

Topics include sampling, questionnaire development, research design, intermediate and advanced statistics, presenting/publishing research, and research ethics. Students conduct an original research study. Restricted to doctoral students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Graduate Students only.

College of Music | Music | Music Education

MUSC-7138 (3) Contemporary Issues in College Teaching

Examines music teaching within colleges and universities, including the evolution of university music programs, undergraduate and graduate music curricula, music professors and their work, and sociopolitical issues. Offered spring of odd-numbered years.

College of Music | Music | Interdepartmental Courses

MUSC-7143 (3) Qualitative Research in Music Education

Topics include qualitative research traditions, site and participant selection, data collection and analysis methods, quality standards, and research ethics. Students conduct an original research study. Restricted to doctoral students in music education. Offered fall of odd-numbered years. Prerequisites: Restricted to Music (MMED or MUSD) graduate students only.

College of Music | Music | Music Education

MUSC-7203 (3) Doctoral Seminar in Music Education

Provides an advanced study of topics central to the music education profession. Requires class presentations and a major paper or project. Restricted to doctoral students in music education. Offered fall of even-numbered years. Prerequisites: Restricted to Music (MMED or MUSD) graduate students only.

College of Music | Music | Music Education

MUSC-7801 (3) Doctoral Seminar in Music Theory

Provides advanced study in theory. Students present results of research on individually chosen topics or aspects of a topic central to the class. Requires a major paper or project. Restricted to Music (MUSD) graduate students only. Prereq., passed general written theory and aural skills prelim exam, or completed remediation. Prerequisites: Restricted to Music (MUSD) graduate students only.

College of Music | Music | Theory and Composition

MUSC-7822 (3) Seminar in Musicology

Required of all musicology majors before completion of comprehensive examinations. A different research area is designated each semester. Restricted to MUSD majors. See also MUSC 7832. Offered fall only. Prerequisites: Restricted to Music (MUSD) graduate students only.

College of Music | Music | Musicology

MUSC-7832 (3) Seminar in Musicology

Required of all musicology majors before completion of comprehensive examinations. A different research area is designated each semester. See also MUSC 7822. Offered spring only.

College of Music | Music | Musicology



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MUSM

MUSM-4010 (3) Museums and Society

Investigates the museum as an institution in society; history of museums and changing roles and methods in society; administrative structure; museum profession; methodology of museum collections, exhibitions, and education. Designed for students interested in museums or museum careers.

[College of Arts & Sciences](#) [Museum](#) [Museum Studies](#)

MUSM-4462 (2-6) Museum Field Methods in Anthropology

Archaeological field techniques including excavation, mapping, recording, photography, interpretation, and field laboratory. May be repeated up to 6 total credit hours. Same as MUSM 5462.

[College of Arts & Sciences](#) [Museum](#) [Anthropology](#)

MUSM-4473 (3) Museum Field Methods in Botany

Emphasizes field techniques for observation, analysis, and identification of vascular plants, collection, preservation, and date recording for museum specimens. Prereq., instructor consent.

[College of Arts & Sciences](#) [Museum](#) [Botany](#)

MUSM-4484 (3) Museum Field Methods in Geology.

Paleontological and paleoecological field techniques including collecting; recording of geographic, stratigraphic, and quarry information;

preservation; and interpretation, including applicable readings. Designed for individuals who have some background in geology but little or no prior field experience. Same as Musm 5484. Summer only.

College of Arts & Sciences Museum Geology

MUSM-4494 (3) Field Research: Basic Methods and New Technologies

Students are exposed to a wide variety of field methods in disciplines specific to natural history museums, with field exercises in zoology, archaeology, paleontology, geology, botany, and entomology. Emphasizes the collection and analysis of spatial and geographic data. Prereq., instructor consent. Same as MUSM 5494.

College of Arts & Sciences Museum Museum Studies

MUSM-4795 (3) Field Methods in Zoology and Botany

Class covers research and field methods for biological disciplines associated with natural history museums: vertebrates, invertebrates, and plants. Emphasis is on field research techniques: observations, sampling, collection and preservation methods, and comparisons among elevation zones. Includes 5 field labs, 2 weekend trips, 5 lab practica, experience with several taxonomic experts, and individual research projects. Same as MUSM 5795, ENVS 4795, and EBIO 4795.

College of Arts & Sciences Museum Zoology

MUSM-4900 (1-6) Independent Study

May be repeated up to 6 total credit hours. Same as MUSM 5900.

College of Arts & Sciences Museum Independent Study

MUSM-4912 (3) Museum Practicum in Anthropology

Students take part in curatorial procedures of the anthropology section of the museum: conservation, cataloguing, collection management, and administration. Prereq., MUSM 5011 or equivalent. Enrollment is limited; students should make arrangements during previous semester. Same as MUSM 5912.

College of Arts & Sciences Museum Anthropology

MUSM-4913 (3) Museum Practicum in Botany

Students take part in curatorial procedures of the botany section of the museum: specimen preparation, labeling, identification, cataloguing, conservation, and collection management. Prereq., MUSM 5011 or equivalent. Enrollment is limited; students should make

arrangements during previous semester. Same as MUSM 5913.

College of Arts & Sciences Museum Botany

MUSM-4914 (3) Museum Practicum in Geology

Students take part in curatorial procedures of the geology section of the museum: field collection, specimen preparation, cataloguing, collection management, and a survey of current laws as they apply to specimens. Prereq., MUSM 5011 or equivalent. Enrollment is limited; students should make arrangements during previous semester. Same as Musm 5914.

College of Arts & Sciences Museum Geology

MUSM-4915 (1-3) Museum Practicum in Zoology

Students take part in basic curatorial procedures of the zoology section of the museum: relaxing, fixing, positioning, preserving, cataloguing, storing, and shipping. Also introduces students to the animal kingdom. Prereq., instructor consent. Same as MUSM 5915.

College of Arts & Sciences Museum Zoology

MUSM-4916 (1-3) Museum Practicum in Entomology

Students take part in curatorial procedures of the entomology section of the museum: field collection, specimen preparation, labeling, identification, rearing techniques, and exhibit preparation. Prereq., 5011, or equivalent. Enrollment is limited; students should make arrangements during previous semester. Same as MUSM 5916.

College of Arts & Sciences Museum Entomology

MUSM-4917 (1-3) Museum Practicum in Techniques

Students participate in museum public education functions that may include researching, planning, developing, and producing exhibits, traveling trunks, booklets, and other materials. May involve writing labels, molding and casting, conservation, and restoration. May be repeated up to 6 total credit hours. Same as MUSM 5917.

College of Arts & Sciences Museum Museology

MUSM-5011 (4) Introduction to Museum Studies

Provides background in history and literature of museums, their objectives and methods, laboratory exercises in curatorship, exhibition theory, and administration. Prereq., instructor consent.

College of Arts & Sciences Museum Museum Studies

MUSM-5021 (2-3) Selected Museum Topics

College of Arts & Sciences Museum Museum Studies

MUSM-5030 (3) Museum Education

Surveys and discusses the educational role of museums and informal learning centers. Issues include current trends, learning theories and styles, learning from objects, education programs, diverse audiences, museum/school partnerships, and the role of education in exhibit development.

College of Arts & Sciences Museum Museum Studies

MUSM-5031 (3) Museums and the Public: Exhibit Development

Covers elements of exhibition development and design, up to production and evaluation of exhibit prototypes. The team approach is emphasized. Prereqs., graduate standing and instructor consent.

College of Arts & Sciences Museum Museum Studies

MUSM-5041 (3) Museum Administration

Covers theory of organizations and how it applies to museums, application of small business management and nonprofit organizations to museums, marketing and development, and grant writing and funding strategies. Prereq., graduate standing or instructor consent.

College of Arts & Sciences Museum Museum Studies

MUSM-5045 (3) Introduction to Museum Anthropology

This course traces the development of Anthropology and museums in America from late 19th century to present day. Students are encouraged to: explore museum theory and practice; think critically about the history of relations among Native Americans, Anthropology, and museums; consider the legacy of collecting and challenges of representing others; and, examine the interplay of Anthropology, material culture, and colonialism. ANTH 4045, ANTH 5045, and MUSM 5045 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Museum Anthropology

MUSM-5051 (3) Museum Collections Management

Deals specifically with curation and data management. Topics include acquisition practices and problems; organization, management, use and preventive conservation of collections; and computer data management of collections. Prereq., instructor consent.

College of Arts & Sciences Museum Museum Studies

MUSM-5061 (3) Introduction to Scientific Illustration

Intended for students with little to no art background. Focus is on the accurate rendering of scientific subjects for publication and for public display. Course begins with basic drawing skills and sharpening of visual perception. Students progress to be able to produce realistic renderings of subjects. Students are exposed to a variety of black and white and color techniques and the standards for presenting illustrations for a variety of audiences. Course concludes with computer illustration tools and techniques.

College of Arts & Sciences Museum Museum Studies

MUSM-5474 (4) Vertebrate Paleontology

Discusses the history and evolution of the vertebrates, including the phylogenetic relationships and evolutionary patterns of the major groups. Lab focuses on comparative vertebrate osteology and fossil representation of major groups. Same as GEOL 5474.

College of Arts & Sciences Museum Geology

MUSM-5484 (3) Museum Field Methods in Geology.

Same as Musm 4484. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Museum Geology

MUSM-5494 (3) Field Research: Basic Methods and New Technologies

Same as MUSM 4494.

College of Arts & Sciences Museum Museum Studies

MUSM-5795 (3) Field Methods in Zoology and Botany

Same as MUSM 4795 and EBIO 5795. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Museum Zoology



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MUSM

MUSM-5900 (1-6) Graduate Independent Study

Same as MUSM 4900.

[College of Arts & Sciences](#) [Museum](#) [Independent Study](#)

MUSM-5912 (1-3) Museum Practicum in Anthropology

Same as MUSM 4912.

[College of Arts & Sciences](#) [Museum](#) [Anthropology](#)

MUSM-5913 (3) Museum Practicum in Botany

Same as MUSM 4913.

[College of Arts & Sciences](#) [Museum](#) [Botany](#)

MUSM-5914 (3) Museum Practicum in Geology

Same as MUSM 4914.

[College of Arts & Sciences](#) [Museum](#) [Geology](#)

MUSM-5915 (1-3) Museum Practicum in Zoology

Same as MUSM 4915.

College of Arts & Sciences Museum Zoology

MUSM-5916 (1-3) Museum Practicum in Entomology

Same as MUSM 4916.

College of Arts & Sciences Museum Entomology

MUSM-5917 (1-3) Museum Practicum in Techniques

Same as MUSM 4917.

College of Arts & Sciences Museum Museology

MUSM-6110 (1-3) Seminar in Museum Issues

Offers a weekly seminar for museum and field study students that addresses one new topic each semester relevant to museum operations such as archival administration, museums, multiculturalism, repatriation, and others. Prereqs., MUSM 5011, graduate standing, and instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Museum Museum Studies

MUSM-6140 (1-3) Advanced Topics and Trends

Discusses current topics and/or trends in the museum profession. Topics change annually to reflect current topics and trends and the most current museum issues. Prereq., graduate standing and instructor consent. Recommended prereq., MUSM 5011 and 5051.

College of Arts & Sciences Museum Museum Studies

MUSM-6150 (3) Critical and Theoretical Issues in Museums

Investigates key problems facing museum institutions and studies the staging and representation of historical knowledge, the ethics of collecting and display, the changing nature and uses of historical evidence, and relations between curatorial practice, collecting, and field work. Critically examines different approaches to museums and museology in various disciplines, both past and present. Prereq., MUSM 5011 or instructor consent. Same as ARTH 6150, HIST 6150, and ANTH 6150.

MUSM-6930 (2-4) Museum Internship.

Provides experience in museums of different sizes, audiences, and subjects, including history, natural history, art, and children's museums. Each student is supervised individually by a faculty member as well as the appropriate person in the cooperating museum. Prereq., instructor consent.

MUSM-6940 (1) Master's Degree Candidate

MUSM-6950 (1-6) Master's Thesis in Museum and Field Studies

A thesis, which may be of a research, expository, critical or creative type, is required of every master's degree candidate under the thesis option. Prereqs., MUSM 5011 and 5051, and one of the following: MUSM 5030, 5031, or 5041.

MUSM-6960 (1-4) Master's Project or Paper in Museum and Field Studies

A project or paper in the student's discipline and related to some aspect of museum studies is required of every master's degree candidate under the non-thesis-option plan. Prereqs., MUSM 5011 and 5051. Students in collections/field track also need MUSM 5030, 5031, or 5041.



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NAVR

NAVR-1010 (2) Introduction to Naval Science

Introduces the structure, missions, and functions of the United States Navy and Marine Corps. Also covers military law, leadership, naval history, and concepts of sea power.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Naval Science](#)

NAVR-2020 (3) Seapower and Maritime Affairs

Studies the importance of seapower in history including naval, maritime, and other commercial uses of the sea. Emphasizes significant milestones in the history of the U.S. Navy and Marine Corps and their role in the national strategies and policies of the United States.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Naval Science](#)

NAVR-3020 (3) Naval Operations and Seamanship

Examines the Inland and International Rules of the Nautical Road, including court interpretations, principles of relative motion and vector analysis with the maneuvering board, ship handling procedures, weather, communications, tactical operations, and maritime law.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Naval Science](#)

NAVR-3030 (3) Naval Engineering Systems

Studies in detail ship propulsion and related auxiliary systems. Emphasizes fossil fuel and nuclear steam and gas turbine systems. Stresses design constraints imposed by unique marine environment.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-3040 (3) Weapons and Systems Analysis

Introduces theoretical concepts upon which modern naval weapons systems are designed and constructed. Specific areas of study include physics of underwater sound propagation, pulse radar theory, automatic tracking principles, and fundamentals of missile guidance.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-3101 (3) Evolution of Warfare

Traces the development of warfare, focusing on the impact of military theorists and technical developments. Assists students to acquire a sense of strategy, develop an understanding of military alternatives, and see the impact of historical precedent on military actions.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4010 (3) Leadership and Management 1

Comprehensively studies organizational leadership. Emphasizes motivation, communication, empowerment, and needs of subordinates. Studies the role of professional and personal ethics in organizational leadership.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4020 (3) Leadership and Ethics

Studies the ethics and laws of armed conflict, analyzing the leadership responsibilities of officers in conflict. Studies the military justice system and Naval legal administrative procedures, comparing military law with civilian criminal and civil law. Defines the responsibilities of junior officers within the military justice system.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4030 (3) Navigation

Offers theory and practical application in the art of navigation: charts, publications, piloting, dead reckoning, navigation aids and instruments, time, sextant use, electronic fixing, global positioning system, and voyage planning.

Cross College Programs Reserve Office Training Corp Naval Science

NAVR-4101 (3) Amphibious Warfare

Surveys the development of amphibious doctrine. Emphasizes the evolution of amphibious warfare in the 20th century and beyond. Explores present-day potential and limitations on amphibious operations, including the rapid force deployment concept.

[Cross College Programs](#) | [Reserve Office Training Corp](#) | [Naval Science](#)



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NORW

NORW-1010 (4) Beginning Norwegian 1

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Norwegian](#)

NORW-1020 (4) Beginning Norwegian 2

Prereq., NORW 1010 with a grade of C- or better.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Norwegian](#)

NORW-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Norwegian](#)

NORW-2110 (4) Second-Year Norwegian Reading and Conversation 1

Prereq., NORW 1020 with a grade of C- or better. Fulfills the arts and sciences language requirement for the BA and BFA degrees. Approved for GT-AH4. Meets MAPS requirement for foreign language.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Norwegian](#)

NORW-2120 (4) Second-Year Norwegian Reading and Conversation 2

Continuation of NORW 2110, with focus on Norwegian culture and society. Small group work and class discussions. Prereq., NORW 2110 with a grade of C- or better.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Norwegian](#)

NORW-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Norwegian](#)



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NRLN

[NRLN-2000 \(3\) Ways of Knowing: Constructions of Knowledge in the Academy and Beyond](#)

Explores different ways of knowing from interdisciplinary, cross-cultural perspectives. Course begins with personal interrogations of students' primary learning modes. It goes on to examine cultural assumptions about schooling, learning and knowledge, juxtaposing western and eastern philosophies of knowing and looking at how gender, race, class, and other categories of identity shape and interpret concepts of knowledge. Restricted to Norlin Scholars only; department consent required. Same as ARSC 2000. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Norlin Scholars](#)

[NRLN-3000 \(1-3\) Norlin Scholars Special Topics](#)

Provides students a small, interdisciplinary seminar experience focusing on critical reading and writing, discussion, and experiential and practical learning. Students will apply their disciplinary knowledge and personal experiences to course content. May be repeated up to 6 total credit hours provided the topics are different. Restricted to Norlin Scholars only; department consent required.

[College of Arts & Sciences](#) [Norlin Scholars](#)

[NRLN-3020 \(3\) Topics in Writing: Norlin Scholars](#)

Focuses on reading, analysis, and writing about major ideas and events. Emphasizes close, careful reading, thoughtful analysis, and student writing. Provides a high-level academic course that enhances reading, writing, and thinking skills. May be repeated up to 6 total credit hours. Same as WRTG 3020. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Norlin Scholars](#)

NRLN-3500 (3) Constructions of Knowledge in the Fields

Required for Norlin Scholars, this is an upper division course exploring the relationship between the scholar citizen and the chosen field. Investigates the concept of vocation and the epistemologies, pedagogies, rhetorics, technologies, ethics, cultures and prevailing narratives of students' major fields and career paths. A range of co-curricular activities augment the classroom learning. Restricted to Norlin Scholars only; department consent required. Prereq., NRLN 2000.

[College of Arts & Sciences](#) [Norlin Scholars](#)



Courses

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NRSC

NRSC-2100 (4) Introduction to Neuroscience

Provides an introduction to fundamental concepts in neuroscience. The goal of this first course is to provide a strong foundation in neurobiology--cell biology, physiology of the neuronal membrane, interneuronal communication, neurotransmission, gross anatomy, and how the brain develops. Students will also learn principles of sensory systems functions. The recitation will introduce students to neuronal computational modeling. Prereqs., MCDB 1150 and 1151, or EBIO 1210 and 1230. Fulfills PSYC 2012 requirement for Psychology majors. Prerequisites: Restricted to students with 27-86 credits (Sophomores or Juniors).

[College of Arts & Sciences](#) [Psychology](#)

NRSC-2101 (1-4) Topics in Neuroscience

Provides students with the opportunity to focus on a specific area of Neuroscience in depth. May be repeated up to 6 total credit hours. Prereq., instructor consent.

[College of Arts & Sciences](#) [Psychology](#)

NRSC-4011 (1-6) Senior Thesis and Research and Ethics

Perform neuroscience related empirical research and analysis. Training emphasizes the development of critical thinking skills specific to dealing with ethical dilemmas and the responsible conduct of research. Issues related to animal and human research are covered. Prereq., instructor consent.

[College of Arts & Sciences](#) [Psychology](#)

NRSC-4015 (3) Affective Neuroscience

Experiencing and learning from affect--emotional value--is a fundamental part of the human experience. When people started thinking of brains as computers, research on emotion fell by the wayside. Recently however, this has changed, and there is an explosion of work on the brain mechanisms of affective value. We will cover recent advances in understanding the emotional brain. Prereqs. for NRSC 4015 are PSYC 2012 or NRSC 2100 or instructor permission, and junior or senior standing. NRSC 4015 and 5015 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Psychology

NRSC-4032 (3) Neurobiology of Learning and Memory

Provides a comprehensive treatment of how the brain acquires, stores, and retrieves memories. To do this we will consider (a) the methods used to address these issues, (b) what we know about how brain systems are organized to support memories of different types, and (c) the synaptic mechanisms that are involved. Prereqs., PSYC 2012 or 4052, or IPHY 3730, or NRSC 2100 or 4052, or instructor consent. Restricted to juniors and seniors. Same as NRSC 5032. Formerly PSYC 4032 Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Psychology

NRSC-4052 (4) Behavioral Neuroscience

Intensive survey of the morphological, neurochemical, and physiological aspects of behavior. Prereqs., PSYC 2012-2022 or EBIO 1210-1220, or CHEM 1111-1131, or PHYS 1010-1020, or PHYS 2010-2020. NRSC 4052 and PSYC 4052 are the same course. Same as NRSC/PSYC 5052.

College of Arts & Sciences Psychology

NRSC-4072 (3) Clinical Neuroscience: A Clinical and Pathological Perspective

Provides basic science background for understanding the mechanism of behavioral disturbances resulting from brain damage. Emphasizes pathological neuroanatomy, neurophysiology, and neuropharmacology, which is essential for understanding problems related to health and disease. Prereqs., PSYC 2012 or NRSC 2100 and one of the following sequences of courses: EBIO 1210 and 1220, MCDB 1150 and 2150, or MCDB 1150 and EBIO 1220. Same as NRSC 5072. Formerly PSYC 4072.

College of Arts & Sciences Psychology

NRSC-4092 (3) Behavioral Neuroendocrinology

Provides an introduction to neuroendocrinology with a focus on the interaction between hormones and brain function. Prereqs., PSYC 2012 or NRSC 2100 or instructor consent. Same as NRSC 5092. Formerly PSCY 4092. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology

NRSC-4132 (3) Neuropharmacology

Neuropharmacology is the study of drug action within the central nervous system. This course is designed to provide a fundamental understanding of the biochemical basis of drug action at the cellular level. Topics covered include the following: 1) principles of pharmacology; 2) brain neurotransmitter systems; 3) addiction and the mechanisms of psychoactive action; 4) biochemical basis of psychiatric disorders and their pharmacological treatment. Prereqs., PSYC 2012 or NRSC 2100 and CHEM 1133. Formerly PSYC 4132. Same as NRSC 5132.

College of Arts & Sciences Psychology

NRSC-4155 (4) Cognitive Neuroscience/Neuropsychology

An introduction to cognitive neuroscience and neuropsychology. Provides a survey of the neuropsychological underpinnings for a wide range of cognitive functions: motor control, object recognition, spatial processing, attention, language, memory and emotion. One lab, three lectures per week. Prereqs., PSYC 1001, 2012 or NRSC 2100, PSYC 3101 or MATH 2510 or MATH 2520 or IPHY 2800 or APPM 1710 or APPM 2750 or CHEN 3010 or CHEN 3130 or ECON 3818. Same as PSYC 4155.

College of Arts & Sciences Psychology

NRSC-4545 (3) Neurobiology of Addiction

Covers an intensive survey and synthesis of recent findings contributing to our understanding of the neurobiological basis of addiction. Analysis of both drug and behavioral addictions will be made at the molecular, cellular and neurocircuitry levels and synthesized into models utilizing common themes between various addictions and contributing pathologies. Prereq., PSYC 4132 or NRSC 4132. NRSC 4545 and 5545 are the same course. Prerequisites: Requires pre-requisite course of PSYC 4132 & NRSC 4132 with grade of C- or better.

College of Arts & Sciences Psychology

NRSC-4841 (1-3) Independent Study in Neuroscience

May be repeated up to 8 total credit hours. Restricted to students with 57-180 credits (Junior or Senior) Neuroscience (NRSC) majors only. Pass/Fail only. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Neuroscience (NRSC) majors only.

College of Arts & Sciences Psychology

NRSC-4911 (3) Teaching of Neuroscience

This course offers a rich experience for students to develop and organize curriculum to complement the Neuroscience core courses. This course offers a valuable teaching experience utilizing computational modeling to simulate experimental results. Any Neuroscience curriculum course, such as Intro to Neuroscience I or II, Neuropharmacology, Neurobiology of Learning and Memory or Behavioral Neuroscience may be appropriate with instructor consent. NRSC 4911 and 5911 are the same course.

College of Arts & Sciences Psychology

NRSC-5015 (3) Affective Neuroscience

Experiencing and learning from affect--emotional value--is a fundamental part of the human experience. When people started thinking of brains as computers, research on emotion fell by the wayside. Recently however, this has changed, and there is an explosion of work on the brain mechanisms of affective value. We will cover recent advances in understanding the emotional brain. Prereqs. for NRSC 4015 are PSYC 2012 or NRSC 2100 or instructor permission, and junior or senior standing. NRSC 4015 and 5015 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-5032 (3) Neurobiology of Learning and Memory

Same as NRSC 4032. Formerly PSYC 5032 Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-5052 (4) Behavioral Neuroscience

PSYC 5052 and NRSC 5052 are the same course. Same as PSYC/NRSC 4052. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-5072 (3) Clinical Neuroscience

Same as NRSC 4072. Formerly PSYC 5072. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-5092 (4) Behavioral Neuroendocrinology

Same as NRSC 4092. Formerly PSCY 5092. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-5100 (2-5) Introduction to Neuroscience I

Provides an intensive introduction to the principles of neuroscience, initially covering the detailed neuroanatomy of human forebrain, hindbrain, and spinal cord. This is followed by neurophysiology with a concentration on the electrophysiology of neural systems. The basics of neuroanatomy and neurophysiology with a concentration on the electrophysiology are then applied to an examination of the structure and function of visual, auditory, and sensorimotor systems in animal and man. Prerequisites: Restricted to Graduate Students

only.

College of Arts & Sciences Psychology

NRSC-5110 (3) Introduction to Neuroscience II

Provides an intensive interdisciplinary introduction to the principles of neuroscience. It is a sequel to NRSC 5100. Provides a detailed overview of neurochemistry, neurodevelopment, neuromotor control, neurogenetics, and cognitive neuroscience. Prereq., NRSC 5100.

College of Arts & Sciences Psychology

NRSC-5132 (3) Neuropharmacology

May be repeated up to 6 total credit hours. Formerly PSYC 5132. Same as NRSC 4132. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-5545 (3) Neurobiology of Addiction

Covers an intensive survey and synthesis of recent findings contributing to our understanding of the neurobiological basis of addiction. Analysis of both drug and behavioral addictions will be made at the molecular, cellular and neurocircuitry levels and synthesized into models utilizing common themes between various addictions and contributing pathologies. Prereq., PSYC 4132 or NRSC 4132. NRSC 4545 and 5545 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-5911 (3) Teaching of Neuroscience

This course offers a rich experience for students to develop and organize curriculum to complement the Neuroscience core courses. This course offers a valuable teaching experience utilizing computational modeling to simulate experimental results. Any Neuroscience curriculum course, such as Intro to Neuroscience I or II, Neuropharmacology, Neurobiology of Learning and Memory or Behavioral Neuroscience may be appropriate with instructor consent. NRSC 4911 and 5911 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-6100 (2) Advances in Neuroscience Seminar

Designed for beginning graduate students interested in neuroscience. Students read, discuss, and evaluate the primary literature on a number of current topics in neuroscience as well as attend the seminar program in neuroscience. May be repeated up to 8 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

NRSC-7102 (2-3) Topics in Neuroscience

Advanced seminar dealing with different specialized topics in neuroscience. Restricted to Graduate Students only. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

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NRSC

NRSC-7112 (3) Special Topics in Neuroscience I

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

College of Arts & Sciences Psychology

NRSC-7122 (3) Special Topics in Neuroscience II

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

College of Arts & Sciences Psychology

NRSC-7132 (3) Special Topics in Neuroscience III

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

College of Arts & Sciences Psychology

NRSC-7142 (3) Special Topics in Neuroscience IV

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.

NRSC-7152 (3) Special Topics in Neuroscience V

Advanced seminar dealing with several different specialized topics in Neuroscience. Prereq., NRSC 5110 or instructor consent required. May be repeated up to 9 total credit hours.



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OPIM

OPIM-6070 (3) Survey of Operations Research

Applications oriented survey of operations research topics including linear and integer programming, network analysis, dynamic programming, nonlinear programming, decision analysis, Markov chain and Markovian decision models, queuing theory, and simulation. Same as EMEN 5600. Formerly SYST 6070.

[Leeds School of Business](#) | [Operations and Information Management](#)

OPIM-6080 (3) Operations Management

Covers demand forecasting, capacity management, scheduling, inventory planning and management, production planning and control, materials requirements planning, just-in-time production systems, product design and process selection, elements of statistical process control, service operations, and quantitative techniques for operations decision making. Similar to EMEN 5500. Formerly SYST 6080.

[Leeds School of Business](#) | [Operations and Information Management](#)

OPIM-6820 (3) Special Topics in Systems

Offered irregularly to provide opportunity for investigation into new frontiers in systems. May be repeated up to 6 total credit hours. Formerly SYST 6820.

[Leeds School of Business](#) | [Operations and Information Management](#)

OPIM-6900 (1-3) Independent Study

Requires prior consent of dean and instructor under whose direction study is taken. Intended only for exceptionally well-qualified business seniors who desire to study an advanced topic. Departmental form required. Formerly SYST 6900.

Leeds School of Business Operations and Information Management

OPIM-6930 (3) Assessing Sustainable Energy Technologies

Focuses on the commercialization prospects of emerging energy technologies, including solar, wind, biomass, oceanic, geothermal, hydropower, fuel cell (hydrogen), nuclear, and other more exotic energy sources. Investigates the technology feasibility, economic viability and progress of each technology, as well as its economic opportunities and challenges.

Leeds School of Business Operations and Information Management

OPIM-6940 (1) Masters Candidate

Leeds School of Business Operations and Information Management

OPIM-6950 (1-6) Master's Thesis

Leeds School of Business Operations and Information Management

OPIM-7110 (3) Simulation Modeling and Analysis

Introduces the concepts of simulation modeling. Provides practical experience with real examples using popular commercial simulation packages such as Arena or Extend. Emphasizes discrete-event simulation but also covers topics in Monte Carlo simulation and system dynamics. Practical examples from operations management, manufacturing, and services are used to give students an appreciation for the wide scope of application and the robust nature of simulation modeling in the context of decision making. Formerly SYST 7110.

Leeds School of Business Operations and Information Management

OPIM-7120 (3) Discrete Optimization

Covers the modeling and solution of discrete problems that arise in business and engineering. Classical techniques such as cutting planes and branch and bound are covered. Emphasizes the application of metaheuristic procedures, such as tabu search and evolutionary approaches, to the solution of practical combinatorial optimization problems. Formerly SYST 7120.

Leeds School of Business Operations and Information Management

OPIM-7330 (3) Advanced Operations Management Modeling

Covers concepts, models, and solution techniques relevant to the management of the processes required to provide goods or services to consumers. Emphasizes supply chain systems topics such as production, inventory, distribution, and scheduling. Management science and operations research methodology is also applied to problems such as facility capacity planning, facility design, and location analysis. Formerly SYST 7330.

Leeds School of Business | Operations and Information Management

OPIM-7400 (3) Stochastic Dynamic Programming with Applications

Covers the basic models and solution techniques for stochastic dynamic programs with finite or infinite number of stages. Application domains include, among other, revenue management and pricing, manufacturing, supply chains, service systems, and economics. Approximate solution techniques for problems involving large state/decision spaces and/or complex dynamics over time will also be discussed. Recommended prereq., an introductory course in Optimization and Probability. Restricted to Ph.D students Prerequisites: Restricted to Graduate Students only.

Leeds School of Business | Operations and Information Management

OPIM-7800 (3) Doctoral Proseminar in Systems

Provides systems doctoral students with an orientation to current research and the academic discipline in operations and information systems. Familiarizes students with key schools of thought in the field, provides background on reference disciplines, examines significant research streams, and helps students begin developing their own area of interest. Formerly SYST 7800.

Leeds School of Business | Operations and Information Management

OPIM-7805 (3) Foundations of Research in Information Systems

Examines foundations of information systems research, including classic readings in information systems and its reference disciplines, different research approaches, processes of research, and classic and contemporary readings in major topics in information systems. Prereq., PhD standing or instructor consent. Formerly SYST 7805.

Leeds School of Business | Operations and Information Management

OPIM-7810 (3) Technical Topics in Information Systems Research

Examines in depth a selection of topics in technical areas of information systems. Includes theoretical perspectives for technical topics, critical perspectives on past and current research, appropriate methods for examining technical topics, and development of students' ability to identify and develop research topics in technical areas. Prereq., PhD standing or instructor consent. Formerly SYST 7810.

Leeds School of Business | Operations and Information Management

OPIM-7815 (3) Behavioral Topics in Information Systems Research

Covers both basic and advanced topics. Develops skill in designing, evaluating, and understanding both quantitative and qualitative research methods. Includes the development of research proposals, making and justifying methodological choices, writing research reports, and understanding how to publish in information systems. Prereq., PhD standing or instructor consent. Formerly SYST 7815. Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) | [Operations and Information Management](#)

OPIM-7820 (3) Advanced Research in Information Systems

Examines advanced topics in information systems research, focusing on the electronic era and ebusiness. Examines foundations of ebusiness, including basic technical, organizational, and behavioral foundations. Covers leading edge research from both topical and methodological perspectives. Focuses on methods appropriate for studying ebusiness and examines future research directions. Prereq., PhD standing or instructor consent. Formerly SYST 7820.

[Leeds School of Business](#) | [Operations and Information Management](#)



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OPMG

OPMG-6900 (1-3) Independent Study

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OPMG-6940 (1) Master's Candidate

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OPMG-6950 (1-6) Master's Thesis

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Operations & Prod Mgmt](#)

OPMG-8990 (1-10) Doctoral Thesis

[Leeds School of Business](#) | [Master of Business Administration](#) | [MBA: Operations & Prod Mgmt](#)



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ORMG

ORMG-7310 (3) Seminar on Organizational Behavior

Doctoral level seminar covering such issues as leadership, job attitudes, motivation, absenteeism, turnover, goal setting, and group dynamics. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) [Organization Management](#)

ORMG-7320 (3) Seminar in Organization Theory

Critically investigates major issues in organization theory and provides students with experience in comprehensively surveying literature in subject areas such as organization design, power, culture, innovation, technology, environment, size, and strategy. Instructor consent required. Prerequisites: Restricted to Business Administration graduate students only.

[Leeds School of Business](#) [Organization Management](#)

ORMG-7330 (3) Seminar and Practicum in Organization Development

Provides a doctoral level seminar emphasizing intervention theory and method in effectuating organizational change in a client system. Deals with group development, educational processes, conflict resolution, organizational interventions, change strategies, and ethical and skill requirements of the consultative role. Prereq., instructor consent.

[Leeds School of Business](#) [Organization Management](#)

ORMG-7800 (3) Doctoral Proseminar: Management

Provides an orientation to doctoral level study for all students in management. Through critical analysis of articles and student and faculty presentations, students learn about reading and writing research articles and gain an overview of the management discipline.

Prerequisites: Restricted to Graduate Students only.

[Leeds School of Business](#) | [Organization Management](#)

ORMG-7830 (3) Research Design and Methods in Management

Introduction to research design and commonly used methods in management and organizational research. Covers the fundamental building blocks of research, provides the basics of a number of analytical techniques, and presents considerations important in analyzing multivariate data in organizational research. Restricted to Ph.D. students only.

[Leeds School of Business](#) | [Organization Management](#)

ORMG-8820 (1-4) Graduate Seminar

Provides opportunity for investigating new frontiers in organization management through an experimental seminar (offered irregularly).

[Leeds School of Business](#) | [Organization Management](#)

ORMG-8900 (1-3) Independent Study

[Leeds School of Business](#) | [Organization Management](#)

ORMG-8990 (1-10) Doctoral Thesis

[Leeds School of Business](#) | [Organization Management](#)



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PACS

PACS-2500 (3) Introduction to Peace and Conflict Studies

Introduces the field of peace and conflict studies. Examines causes and dynamics of conflict and violence (interpersonal to global), peace institutions and research, peace movements, nonviolence, and careers in conflict resolution and peacemaking.

[College of Arts & Sciences](#) [INVST Community Studies](#)

PACS-3800 (3) Topics in Peace and Conflict Studies

Content varies depending on instructor. May provide an overview of the field, cover scientific, philosophical, or historical approaches, or analyze a specific substantive topic. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [INVST Community Studies](#)

PACS-4500 (3) Senior Seminar in Peace and Conflict Studies

Examines specific theoretical perspectives in peace and conflict studies and conducts in-depth research projects using a case-study approach. Emphasizes using critical thinking skills in writing and class discussion. Case study examples include: U.S. violence, peacemaking/keeping in ethnonationalist conflicts, environmental conflict resolution. Prereq., PACS 2500 or instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior).

[College of Arts & Sciences](#) [INVST Community Studies](#)



Courses

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PHIL

PHIL-1000 (3) Introduction to Philosophy

Introduces fundamental topics of philosophy, e.g., knowledge, truth, universals, self, the mind-body problem, time, God, and value. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-1010 (3) Introduction to Western Philosophy: Ancient

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. PHIL 1010 and 1020 may be taken in either order. Same as CLAS 1030. Approved for GT-AH3. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-1020 (3) Introduction to Western Philosophy: Modern

Introduces several philosophical texts and doctrines of 17th and 18th century Europe. Gives special attention to the connection between philosophical ideas and the wider historical milieu--social, political, and literary. PHIL 1010 and 1020 may be taken in either order. Approved for GT-AH3. Approved for arts and sciences core curriculum: historical context.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-1100 (3) Ethics

Introductory study of major philosophies on the nature of the good for humanity, principles of evaluation, and moral choice as they apply to contemporary moral problems. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Philosophy

PHIL-1200 (3) Philosophy and Society

Introduces philosophical thought through critical analysis of our own society, its institutions, and principles. Approved for GT-AH3. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: United States context or ideals and values.

College of Arts & Sciences Philosophy

PHIL-1400 (3) Philosophy and the Sciences

Considers philosophical topics and concepts related to the natural sciences, such as science and pseudo-science; scientific method; the nature of explanation, theory, confirmation, and falsification; the effect of science on basic concepts like mind, freedom, time, and causality; ethics of experimentation; and the relation of science to society. Approved for GT-AH3. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Philosophy

PHIL-1440 (3) Introductory Logic

Introductory study of definition, informal fallacies, and the principles and standards of correct reasoning. Provides practice in analyzing, evaluating, and constructing frequently encountered types of arguments. Does not fulfill major requirement in logic.

College of Arts & Sciences Philosophy

PHIL-1500 (3) Reading, Writing and Reasoning

Teaches students how to write argumentative papers. Each seminar will focus narrowly on some controversial topic. For example, one seminar might focus on the existence of God, whereas another might question whether we have free will. In all cases, a significant portion of the course will be devoted to learning how to write cogent argumentative papers about controversial topics. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Philosophy

PHIL-1600 (3) Philosophy and Religion

Philosophical introduction to some of the central concepts and beliefs of religious traditions, focusing particularly on the question of the existence of God and on the relation between religious beliefs and moral beliefs. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Philosophy

PHIL-1700 (3) Philosophy and the Arts

Considers philosophic questions involved in the analysis and assessment of artistic experiences and of the objects with which the arts, including the literary arts, are concerned.

College of Arts & Sciences Philosophy

PHIL-1750 (3) Philosophy through Literature

Introduces philosophy through literature. Selected novels, plays, and short stories that exemplify traditional problems in philosophy are read and discussed.

College of Arts & Sciences Philosophy

PHIL-1800 (3) Open Topics/Philosophy

May be repeated up to 6 total credit hours.

College of Arts & Sciences Philosophy

PHIL-2140 (3) Environmental Justice

Traditional and contemporary theories of justice are employed in order to critically analyze social and political issues that have important environmental dimensions. Assesses the relationship of justice and equity to the presuppositions of national and global environmental issues and policies.

College of Arts & Sciences Philosophy

PHIL-2200 (3) Major Social Theories

Introductory study of major philosophies of the past in relation to political, economic, and social issues. Approved for arts and sciences core curriculum: ideals and values.

PHIL-2220 (3) Philosophy and Law

Considers philosophical issues related to law in general and the U.S. system in particular. Topics to be covered may address such questions as the following: What is the nature of law? What kinds of acts should the law prohibit (e.g., abortion, drug use, pornography, cloning)? Is there a moral obligation to obey the law? Can civil disobedience be justified? Is there a justification for punishing people for breaking the law? Is capital punishment, in particular, morally justified? Approved for arts and sciences core curriculum: United States context.

PHIL-2270 (3) Philosophy and Race

Explores the historical relationship between western philosophy and race and investigates the ways in which philosophy can be used to address contemporary racial issues. Approved for arts and sciences core curriculum: human diversity.

PHIL-2290 (3) Philosophy and Women

Explores different approaches to the study of women. Same as WMST 2290. Approved for arts and sciences core curriculum: cultural and gender diversity.

PHIL-2390 (3) Philosophy and Psychology

Interdisciplinary course on issues where philosophy and psychology meet; for example, topics such as selfhood, motivation, psychotherapy, freedom, and human behavior are examined. Selected readings in philosophy and psychology are required.

PHIL-2440 (3) Symbolic Logic

First course in mathematical logic. Topics include sentential logic, the logic of quantification, and some of the basic concepts and results of metalogic (interpretations, validity, and soundness).

PHIL-2610 (3) From Paganism to Christianity

Offers a cultural history of Greek and Roman religion. Students read ancient text in translation and use evidence from archaeology to reconstruct the shift from paganism to Christianity in antiquity. Same as CLAS 2610. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Philosophy

PHIL-2750 (3) Philosophy and Science Fiction

Explores philosophical issues in science fiction literature and film. Topics may include time travel, artificial intelligence, free will, personal identity, and how scientific advances will change human life and society. Students may read science fiction stories and philosophical articles, and watch several movies.

College of Arts & Sciences Philosophy

PHIL-2800 (3) Open Topics/Philosophy

May be repeated up to 6 total credit hours.

College of Arts & Sciences Philosophy

PHIL-2840 (1-3) Independent Study

May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3000 (3) History of Ancient Philosophy

A survey of selected figures in ancient Greek and Roman philosophy and in medieval philosophy. Philosophers studied may include the pre-Socratics, Plato, Aristotle, the Hellenistic philosophers, and such figures as Aquinas and Occam. Explores the larger cultural context that influenced these philosophers and were, in turn, influenced by them. Prereqs., 6 hours of philosophy coursework. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3010 (3) History of Modern Philosophy

Introduces modern philosophy, focusing on the period from Descartes through Kant. In addition to careful analysis of philosophical arguments, attention is paid to the ways in which philosophers responded to and participated in major developments in the 17th and 18th century, such as the scientific revolution. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: historical context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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PHIL

PHIL-3100 (3) Ethical Theory

Studies major issues and theories in ethics. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-3110 (3) Feminist Practical Ethics

Explores a variety of personal and public policy issues in the light of the basic feminist commitment to opposing women's subordination. Provides a sense of how a principled commitment to feminism may influence or be influenced by prevailing interpretation of contemporary ideals and values, and gives an opportunity for developing skills of critical analysis. Prereq., WMST 2000 or 2290. Restricted to juniors/seniors. Same as WMST 3100. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-3140 (3) Environmental Ethics

Examines major traditions in moral philosophy to see what light they shed on value issues in environmental policy and the value presuppositions of the economic, ecological, and juridical approaches to the environment. Prereq., PHIL 1100, 1200, 2200, 3100, or 3200. Same as ENVS 3140. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-3160 (3) Bioethics

Analysis of ethical problems involved in such issues as abortion, euthanasia, organ transplants, eugenics, treatment of the patient as a person, and the institutional nature of the health care delivery system. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3180 (3) Critical Thinking: Contemporary Topics

Looks at a selected topic such as nuclear disarmament, racial and sexual discrimination, animal rights, or abortion and euthanasia by examining issues through the lens of critical philosophical analysis. Reviews the reasoning behind espoused positions and the logical connections and argument forms they contain. Prereq., 6 hours of philosophy course work. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3190 (3-4) War and Morality

Focuses on moral issues raised by war as a human institution. What are the justifications, limits, and alternatives? Does the advent of nuclear weapons change the nature of war? Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3200 (3) Social and Political Philosophy

Systematic discussion and analysis of such philosophic ideas as community, freedom, political power, and violence. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3260 (3) Philosophy and the International Order

Considers philosophical topics concerning the international economic, political, and legal systems. Topics that may be considered include the nature of international law, war and peace, humanitarian intervention, international justice, world hunger, and human rights. Prereq., 6 hours PHIL course work. Restricted to sophomores/juniors/seniors. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Philosophy

PHIL-3310 (3) Cognitive Science

An interdisciplinary introduction to cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Prereq., two of the following four courses: PSYC 2145, LING 2000, CSCI 1300, PHIL 2440. Same as PSYC/LING 3005 and CSCI 3702.

College of Arts & Sciences Philosophy

PHIL-3410 (3) History of Science: Ancients to Newton

Surveys the history of science up to Newton, including the emergence of scientific modes of thinking from religious and philosophical roots in the Near East and Greece to the development of these modes in the Middle Ages and Renaissance. Culminates with Isaac Newton and the 17th century scientific revolution. Prereq., 6 hours of philosophy course work. Approved for arts and sciences core curriculum: historical context or natural science. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3430 (3) History of Science: Newton to Einstein

The history of physical and biological science, from the epoch-making achievements of Charles Darwin in biology to the dawn of the 20th century revolutions in physics, chemistry, and genetics. Deals with the success of the mechanical philosophy of nature and its problems. Prereq., 6 hours of philosophy course work. Restricted to sophomores/juniors/seniors. Approved for arts and sciences core curriculum: historical context or natural science.

College of Arts & Sciences Philosophy

PHIL-3480 (3) Critical Thinking/Writing in Philosophy

Focuses upon the fundamental skills, methods, concepts, and distinctions that are essential for the study of philosophy. The basic skills covered include the writing of philosophy papers, the reading of articles, and the extraction and evaluation of arguments. Prereq., 6 hours of philosophy course work. Prereq. or coreq., PHIL 2440. Approved for art and sciences core curriculum: written communication. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Philosophy (PHIL), BA or ADL majors only.

College of Arts & Sciences Philosophy

PHIL-3600 (3) Philosophy of Religion

Philosophical discussion of fundamental issues in religion, such as existence of God, religious experience, faith and reason, evil, immortality, and religious language. Prereq., 6 hours of philosophy course work. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-3700 (3) Aesthetic Theory

Introduces major theories of aesthetics and contemporary discussions of problems, e.g., the nature of art and the problem of evaluations in art. Prereq., 6 hours of philosophy course work. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3800 (3) Open Topics in Philosophy

Variety of new courses at the 3000 level. See current departmental announcements for specific content. Maybe repeated up to 6 total credit hours. Prereq., 6 hours of philosophy course work. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Philosophy

PHIL-3840 (1-3) Independent Study

May be repeated up to 8 total credit hours. Prereq., 6 hours of philosophy course work. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-3930 (1-3) Internship in Social Policy

Under the guidance of an official in a governmental or non-governmental organization, students are assigned to projects selected for their academic suitability as well as for value to the sponsoring organization. Prior approval of department required. Prereq., 9 hours in moral or political philosophy course work. Recommended prereqs., PHIL 1200, 2200, and 3200.

College of Arts & Sciences Philosophy

PHIL-4010 (3) Single Philosopher

Intensively studies the work of one historical figure in philosophy, with the aim of reaching a broad understanding of the philosopher's whole body of thought. Philosophers covered include, from year to year, Plato, Aristotle, Augustine, Aquinas, Descartes, Spinoza, Locke, Leibniz, Hume, and Kant. Includes at least one course per year on an ancient author and one course per year on a modern author. May be repeated up to 12 total credit hours. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours philosophy course work. Same as PHIL 5010. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4020 (3) Topics in the History of Philosophy

Examines a specific philosophical problem over an extended historical period. May be repeated up to 9 total credit hours. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours of philosophy course work, including PHIL 3000 and 3010. Same as PHIL 5020. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4030 (3) Medieval Philosophy

Introduces philosophy from the late Roman era to the 14th century. Philosophers studied may include Augustine, Boethius, Aquinas, and Ockham. Topics range over religion, ethics, mind, and metaphysics. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours of philosophy course work. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4040 (3) Studies in 20th Century Philosophy

Studies two or three major philosophies prominent during the last century. Prereq., 12 hours of philosophy course work. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4070 (3) Existentialist Philosophy

Examines central figures and texts in the existential tradition, from Kierkegaard and Nietzsche to Heidegger and Sartre. Prereq., 12 hours of philosophy course work. Restricted to juniors/seniors.

College of Arts & Sciences Philosophy

PHIL-4110 (3) Contemporary Moral Theory

Provides an in-depth look at some recent work in moral theory. Topics covered, varying from year to year, include: consequentialism and its critics; virtue theory; moral psychology; impartiality and the personal point of view. Prereqs., 12 hours philosophy course work, including PHIL 3100; and junior standing. Same as PHIL 5110.

College of Arts & Sciences Philosophy

PHIL-4120 (3) Philosophy and Animals

Examines the moral status of nonhuman animals, and its implications for the common use of animals as food and experimental subjects for humans. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours of PHIL coursework completed.

Recommended prereq., PHIL 3100. PHIL 4120 and 5120 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4200 (3) Contemporary Political Philosophy

Provides a survey of recent approaches to political philosophy: liberalism (Rawls, Dworkin); libertarianism (Nozick); communitarianism

(Sandel, Macintyre); and feminism (Jaggar). Topics and readings vary with the instructor. May be repeated up to 6 total credit hours. Prereqs., PHIL 2200, 3200, and 12 hours of philosophy course work. Restricted to juniors and seniors. Same as PHIL 5200. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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PHIL

PHIL-4210 (3) Ancient Political Thought

Prereq., CLAS/HIST 1051, CLAS/HIST 1061, HIST 1010, PSCI 2004, or PHIL 3000. Restricted to juniors/seniors. Same as CLAS 4041 and HIST 4041.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-4250 (3) Marxism

Historical and systematic study of principal themes of Marxist thought, from its Hegelian origins to its contemporary varieties, emphasizing the works of Marx and Engels. Prereq., 12 hours of GRMN or PHIL course work or instructor consent. Restricted to juniors/seniors. Same as GRMN 4251. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-4260 (3) Philosophy of Law

Considers philosophical topics concerning law and the U.S. legal system. Topics that may be considered include the nature of law, relations between law and morality, justifications of punishment, the moral duty to obey the law, and law and liberty. Prereq., junior or senior standing and 12 hours in philosophy. Same as PHIL 5260. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-4300 (3) Philosophy of Mind

Discusses problems in the philosophy of mind, including the mind-body problem, and such concepts as consciousness, mental

representation, and intentionality. Restricted to students with 57-180 credits (Junior or Senior). Restricted to students with 57-180 credits (Junior or Senior). Prereqs., PHIL 2440, 3010, 3480, and 4340. Same as PHIL 5300. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4340 (3) Epistemology

Studies some of the main topics of theory of knowledge, such as evidence, justification, prediction, explanation, skepticism, and concept acquisition. Prereq., 12 credit hours of philosophy, including PHIL 2440 and 3010. Recommended prereq., PHIL 3480. PHIL 4340 and 5340 are the same course. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Philosophy (PHIL) majors only.

College of Arts & Sciences Philosophy

PHIL-4360 (3) Metaphysics

Traditional and contemporary theories of the basic categories of reality and the human relationship to it, including universals, substance, identity, change, mind and body, free will, and modality. Restricted to students with 57-180 credits (Junior or Senior). Prereqs., PHIL 2440, 3010, 3480 and 4340. Same as PHIL 5360. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4400 (3) Philosophy of Science

Prereqs., 12 hours PHIL course work including PHIL 2440 or equivalent, and junior standing. Same as PHIL 5400. . Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4440 (3) Topics in Logic

Provides for offering courses in a variety of topics in logic, including, but not limited to, mathematical logic, philosophical issues in logic, probability theory, decision theory, and inductive logic. Prereq., 12 hours PHIL course work, including PHIL 2440 or equivalent. Restricted to juniors/seniors. May be repeated up to 6 total credit hours. Same as PHIL 5440. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4450 (3) History and Philosophy of Physics

Investigates the role of experiment in physics. Uses case studies in the history and philosophy of physics and in scientific methodology. Prereqs., PHYS 1020 or 1120 or 2020 or instructor consent, 12 hours PHIL course work, and junior standing. Same as PHIL 5450 and PHYS 4450. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4460 (3) Modal Logic

Introduces the most philosophically relevant kind of logic that builds on PHIL 2440. Modal logic is the logic of the concepts of necessity, possibility, and contingency. A variety of systems of sentential modal logic will be covered, along with the standard system of first-order modal logic. Restricted to students with 57-180 credits (Junior or Senior). Recommended prereq., PHIL 2440. Same as PHIL 5460.

Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4470 (3) Probability and Rational Choice

Examines issues in four related areas: probability theory (e.g. the interpretation of probability, the raven paradox, and the principle of indifference), decision theory (e.g., the Newcomb problem, the toxin puzzle, and Pascal's wager), game theory (e.g., Prisoner's dilemma, tragedy of the commons, and Schelling points), and social choice theory (e.g., Arrow's theorem). Familiarity with symbolic logic is strongly recommended. Prereq., 12 hours of PHIL coursework completed. Recommended prereq., PHIL 2440. PHIL 4470 and 5470 are the same course.

College of Arts & Sciences Philosophy

PHIL-4490 (3) Philosophy of Language

Examines theories and problems regarding the nature of language and its relation to reality. Concepts discussed include sense, reference, conventions, intentions, and their relation to science and social life. Relevant literature includes readings in Frege, Russell, Quine, Putnam, Kripke, and Chomsky. Prereq., PHIL 2440, 12 credit hours of philosophy, and junior standing. Same as PHIL 5490.

Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4600 (1) Theology Forum Seminar

Discusses a variety of theological and philosophical topics. Some reading, much discussion, occasional guest speakers. May be repeated up to 3 total credit hours with permission of instructor. Prereq., 12 hours of PHIL course work. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4800 (3) Open Topics in Philosophy

A variety of new courses at the 4000 level. See current departmental announcements for specific content. May be repeated up to 6 total credit hours. Prereqs., 12 credit hours of philosophy and junior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-4830 (3) Senior Seminar in Philosophy

Critical in-depth examination of a selected philosophical topic. May be repeated up to 6 total credit hours. Prereq., 15 hours of philosophy. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Philosophy (PHIL) majors only.

College of Arts & Sciences Philosophy

PHIL-4840 (1-3) Independent Study

May be repeated up to 8 total credit hours. Prereq. 12 hours of philosophy course work. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Arts & Sciences Philosophy

PHIL-4950 (3) Honors Thesis

May be repeated up to 6 total credit hours. Prereq., 12 hours of philosophy course work. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Philosophy

PHIL-5010 (3) Single Philosopher

May be repeated up to 12 total credit hours. Prereq., graduate standing or instructor consent. Same as PHIL 4010. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5020 (3) Topics in the History of Philosophy

May be repeated up to 9 total credit hours. Same as PHIL 4020. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5030 (1) Greek Philosophical Texts

Selected readings in classical philosophy, with a focus on achieving fluency in reading philosophical Greek. May be repeated up to 8 total credit hours. May enroll in multiple sections in the same term.

College of Arts & Sciences Philosophy

PHIL-5040 (1) Latin Philosophical Texts

Selected readings in classical and medieval authors, in the original language. The focus is on achieving fluency in reading philosophical Latin. May be repeated up to 7 total credit hours.

College of Arts & Sciences Philosophy

PHIL-5100 (3) Ethics

Presents representative positions in normative ethics and metaethics. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5110 (3) Contemporary Moral Theory

Same as PHIL 4110.

College of Arts & Sciences Philosophy

PHIL-5120 (3) Philosophy and Animals

Examines the moral status of nonhuman animals, and its implications for the common use of animals as food and experimental subjects for humans. Restricted to students with 57-180 credits (Junior or Senior). Prereq., 12 hours of PHIL coursework completed.

Recommended prereq., PHIL 3100. PHIL 4120 and 5120 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5200 (3) Contemporary Political Philosophy

Same as PHIL 4200. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences Philosophy

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PHIL

PHIL-5210 (3) Philosophy and Social Policy

Studies philosophical approaches to social and political issues such as abortion, bioethics, environmental preservation, human rights, and reverse discrimination. Gives attention to strengths and weaknesses of philosophical treatments of these issues. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Philosophy graduate students only.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-5230 (3) Bioethics and Public Policy

Examines public policy implications of contemporary biological, genetic, biomedical, and behavioral science in light of ethics and human values. Considers theoretical and practical grounds for moral assessment of scientific research and possible applications of technology. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-5240 (3) Seminar in Environmental Philosophy

Philosophical examination of several different approaches to environmental problems: economic, juridical, political, and ecological. Discusses specific environmental problems, focusing on their moral dimensions, e.g., wilderness preservation, animal rights, and land use and urban planning. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-5260 (3) Philosophy of Law

Same as PHIL 4260. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5290 (1-3) Topics in Values and Social Policy

Deals with topics in the area of philosophy and public policy and is often interdisciplinary in focus. Topics vary from one semester to another. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5300 (3) Philosophy of Mind

Same as PHIL 4300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5340 (3) Epistemology

Covers a selection of the following problems: the analysis of knowledge, theories of justification, skepticism, perceptual knowledge, theories of sense experience, other minds, knowledge of the past, the problem of induction, theories of justification, and a priori knowledge. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5360 (3) Metaphysics

Same as PHIL 4360. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5400 (3) Philosophy of Science

Same as PHIL 4400. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences Philosophy

PHIL-5440 (3) Topics in Logic

Same as PHIL 4440. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences Philosophy

PHIL-5450 (3) History and Philosophy of Physics

Same as PHIL 4450 and PHYS 5450. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences Philosophy

PHIL-5460 (3) Modal Logic

Same as PHIL 4460. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5470 (3) Probability and Rational Choice

Examines issues in four related areas: probability theory (e.g. the interpretation of probability, the raven paradox, and the principle of indifference), decision theory (e.g., the Newcomb problem, the toxin puzzle, and Pascal's wager), game theory (e.g., Prisoner's dilemma, tragedy of the commons, and Schelling points), and social choice theory (e.g., Arrow's theorem). Familiarity with symbolic logic is strongly recommended. Prereq., 12 hours of PHIL coursework completed. Recommended prereq., PHIL 2440. PHIL 4470 and 5470 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5490 (3) Philosophy of Language

Same as PHIL 4490. Prerequisites: Restricted to Philosophy graduate students only.

College of Arts & Sciences Philosophy

PHIL-5500 (3) Advanced Formal Semantics

Considers topics in the semantics of natural language not normally covered in first courses in philosophy of language. These include: natural deduction and sequent calculi for conditional logic; interpretation as logical inference; Lambek calculus and applicative categorial grammar; applications such as generalized coordination, plurals, higher-order intensional logic, generics, focus, and event-based semantics. Recommended prereq., PHIL 5490.

College of Arts & Sciences Philosophy

PHIL-5550 (3) Metaphysics and Epistemology Proseminar

Covers seminal classic texts and/or fundamental topics in analytic metaphysics and epistemology. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5600 (3) Philosophy of Religion

Studies topics falling under philosophy of religion, such as proofs for God's existence, religious language, mysticism, psychology of religion, modern theological movements, miracles, and study of individual theologians. May be repeated up to 6 total credit hours.

College of Arts & Sciences Philosophy

PHIL-5700 (3) Aesthetics

Analyzes the principal topics of aesthetics, including such issues as formal structure of aesthetics, the nature of critical judgments, and the status of the work of art. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5800 (3) Open Topics in Philosophy

Variety of new courses at the 5000 level. See current departmental announcements for specific content. Maybe repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5810 (1-3) Special Topics in Philosophy

Instructor meets regularly with three or more students to discuss special topics in philosophy. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-5840 (1-3) Graduate Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Philosophy

PHIL-6000 (3-4) Seminar in the History of Philosophy

Studies advanced topics in the history of philosophy. Content varies by semester, but may extend to any period in the history of philosophy, from the Presocratics into the modern era. May be repeated up to 12 total credit hours. Prereq., graduate standing or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Philosophy

PHIL-6100 (3) Seminar in Ethics

Intensive study of selected topics in ethical theory.

PHIL-6200 (3) Seminar in Social and Political Philosophy

Provides an in-depth look at some particular topic in social and political philosophy, such as rights, political freedom, political obligation, or democracy. Prerequisites: Restricted to Graduate Students only.

PHIL-6300 (3) Seminar in Philosophy of Mind

Studies selected topics in philosophy of mind. Prerequisites: Restricted to Philosophy graduate students only.



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PHIL-6310 (3) Issues and Methods in Cognitive Science

Prereqs., graduate standing, or at least one course at the 3000 level or higher in computer science, linguistics, philosophy, or psychology. No background in computer science is presumed. Same as CSCI 6402, EDUC 6504, LING 6200, and PSYC 6200. Prerequisites: Restricted to Graduate Students only.

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PHIL-6340 (3) Seminar in Epistemology

Studies some of the main topics of epistemology, such as skepticism, foundations of knowledge, perception, introspection, belief, certainty, and analytic-synthetic distinctions. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Philosophy](#)

PHIL-6380 (3) Seminar in Metaphysics

Traditional and contemporary theories of the basic categories used to describe nature and the human relationship to it, including such concepts as substance, identity, space and time, causality, determination, and systematic ontology. Prerequisites: Restricted to Graduate Students only.

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PHIL-6400 (3) Seminar in Philosophy of Science

Topics connected with development of nature of science; structure of scientific theories; testing of hypotheses. Theory of decisions in science and ethics. Basic conceptions and models of abstraction in the history of science. Prerequisites: Restricted to Philosophy graduate students only.

PHIL-6490 (3) Seminar in Philosophy of Language

Studies some of the main topics in the philosophy of language, such as meaning and theories of meaning, translation, speech acts, rules of language, reference, relevance of psycholinguistics, language and thought, and language and ontology. Prerequisites: Restricted to Graduate Students only.

PHIL-6940 (1) Master's Candidate for Degree

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

PHIL-6950 (1-6) Master's Thesis

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Philosophy graduate students only.

PHIL-7415 (2) Cognitive Science Research Practicum.

Independent, interdisciplinary research project in cognitive science for graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students should obtain commitments from two mentors for their project. Prereqs., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereqs., CSCI 7762 or EDUC 6505 or LING 7762 or PSYC 7765. Same as LING 7415, PSYC 7415, CSCI 7412, and EDUC 6506.

PHIL-7425 (2) Cognitive Science Research Practicum 2.

Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 6310 or PSYC 7762. Same as CSCI 7422, EDUC 6516, LING 7425, PSYC 7425.

PHIL-7810 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, PSYC 7775 and SLHS 7775. Prerequisites: Restricted to Graduate Students only.

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PHIL-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.

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PHYS

PHYS-1000 (3) Preparatory Physics

Introduces basic physics, emphasizing an analytical approach to prepare for PHYS 1110/1120, the engineering majors sequence. This course does not satisfy any MAPS deficiency in either the sciences or math. Prereq., 1 year high school algebra or equivalent.

[College of Arts & Sciences](#) [Physics](#)

PHYS-1010 (3) Physics of Everyday Life 1

Intended primarily for nonscientists, this course covers physics encountered in everyday life. Topics include balls, scales, balloons, stoves, insulation, light bulbs, clocks, nuclear weapons, basics of flashlights, and microwave ovens. Prereq., high school algebra or equivalent. Approved for GT-SC2. Meets MAPS requirements for natural sciences: chemistry or physics. However, this course should not be taken if the student has a MAPS deficiency in math. Approved for arts and sciences core curriculum: natural science or quantitative reasoning and mathematical skills.

[College of Arts & Sciences](#) [Physics](#)

PHYS-1020 (4) Physics of Everyday Life 2

Intended primarily for nonscientists, this course is a continuation of PHYS 1010. Includes electrical power generation and distribution, electrical motors, radio, television, computers, copiers, lasers, fluorescent lights, cameras, and medical imaging. Prereqs., PHYS 1010 and high school algebra. Approved for GT-SC1. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills or natural science.

[College of Arts & Sciences](#) [Physics](#)

PHYS-1110 (4) General Physics 1

Three lect., one rec. per week, plus three evening exams in the semester. First semester of three-semester sequence for science and engineering students. Covers kinematics, dynamics, momentum of particles and rigid bodies, work and energy, gravitation, simple harmonic motion, and introduction to thermodynamics. Coreq., APPM 1350 or MATH 1300. Credit not granted for this course and PHYS 1170. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Physics

PHYS-1120 (4) General Physics 2

Three lect., one rec. per week, plus three evening exams in the semester. Second semester of three-semester introductory sequence for science and engineering students. Covers electricity and magnetism, wave motion, and optics. Normally is taken concurrently with PHYS 1140. Prereq., PHYS 1110 (min grade C-). Coreq., MATH 2300 or APPM 1360. Credit not granted for this course and PHYS 1180. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Physics

PHYS-1140 (1) Experimental Physics 1

Introduction to experimental physics through laboratory observations of a wide range of phenomena. Course covers experiments on physical measurements, linear and rotational mechanics, harmonic motion, wave motion, sound and heat, electricity and magnetism, optics, and electromagnetic waves with the mathematical analysis of physical errors associated with the experimental process. One lect., one 2-hour lab per week. Prereq., PHYS 1110; prereq. orcoreq., PHYS 1120. Approved for GT-SC1. Approved for arts and science core curriculum: natural science.

College of Arts & Sciences Physics

PHYS-1150 (1) Experimental Physics 2

For students in Physics Plan 3 teaching track only. Students complete another full set of PHYS 1140 experiments (seven different labs from those previously completed). Registration by special arrangements with the Department of Physics. Prereqs., PHYS 1110 and 1120. Same as PHYS 1140.

College of Arts & Sciences Physics

PHYS-1220 (3) Physics for Future Presidents

Intended primarily for nonscientists, this course covers topics relevant to leaders, policy makers, and citizens confronted with science and technology issues. Topics include energy consumption and its impact on the environment; atoms and heat; radioactivity and nuclear reactions; nuclear bombs; light and radio waves for technological applications; climate change; quantum physics. Recommended prereq., high school algebra. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

PHYS-1230 (3) Light and Color for Nonscientists

Discusses light, color, vision, and perception. Covers reflection, refraction, lenses, and applications to photography and other methods of light sensing. Other topics include lasers and holography. Course is geared toward nonscience majors. Meets MAPS requirements for natural science: chemistry or physics. Should not be taken by students with a math MAPS deficiency. Approved for arts and science core curriculum: natural science.

PHYS-1240 (3) Sound and Music

Explores the physical processes that underlie the diversity of sound and musical phenomena. Topics covered include the physical nature of sound, the perception of sound, the perception of pitch and harmony, musical instruments, synthesizers and samplers, and room acoustics. Nonmathematical; geared toward nonscience majors. Approved for GT-SC2. Meets MAPS requirement for natural science: chemistry or physics. Should not be taken by students with a math MAPS deficiency. Approved for arts and sciences core curriculum: natural science.

PHYS-1300 (3) Experiment in Physics

Examines the roles of experiment in physics, using historical examples. Experiments provide a basis for scientific knowledge, test theories, call for new theories, give hints toward the mathematical form of theories, and provide evidence for the existence of entities involved in theories. Approved for arts and sciences core curriculum: natural science.

PHYS-2010 (5) General Physics 1

Three demonstration lect., one two-hour lab/rec. week, plus three evening exams in the semester. Covers mechanics, heat, and sound. Elementary but thorough presentation of fundamental facts and principles of physics. Natural science majors with a knowledge of calculus and others taking calculus are urged to consider taking the calculus-based courses PHYS 1110, 1120, 1140, and 2130, rather than PHYS 2010 and PHYS 2020. This course is designed for premed students in the biological sciences. Prereq., ability touse high school algebra and trigonometry. Approved for GT-SC1. Meets MAPS requirements for natural science. Approved for arts and sciences core curriculum: natural science.

PHYS-2020 (5) General Physics 2

Three demonstration lect., one two-hour lab/rec. per week, plus three evening exams in the semester. Covers electricity and magnetism, light, and modern physics. Natural science majors with a knowledge of calculus and others taking calculus are urged to take the calculus-based courses PHYS 1110, 1120, 1140, and 2130, rather than PHYS 2010 and PHYS 2020. This course is designed for premed students and students in the biological sciences. Prereq., PHYS 2010. Approved for GT-SC1. Approved for arts and sciences core curriculum: natural science.

College of Arts & Sciences Physics

PHYS-2130 (3) General Physics 3

Third semester of introductory sequence for science and engineering students except physics majors and those studying computer applications in physics (for these, see PHYS 2170). Covers special relativity, quantum theory, atomic physics, solid state, and nuclear physics. Physics majors should take PHYS 2170 instead of PHYS 2130. Prereqs., PHYS 1120, 1140, or ECEN 2250, 3400. Coreq., MATH 2400. Normally taken with PHYS 2150.

College of Arts & Sciences Physics

PHYS-2150 (1) Experimental Physics

One lect., one 2-hour lab per week. Includes many experiments of modern physics, including atomic physics, solid state physics, electron diffraction, radioactivity, and quantum effects. Normally taken concurrently with PHYS 2130 or PHYS 2170 but students may take PHYS 2150 after taking PHYS 2130 or 2170. Prereqs., PHYS 1120 and 1140.

College of Arts & Sciences Physics

PHYS-2160 (1) Experimental Physics

For students in Physics Plan 3 teaching track only. Students do another full set of PHYS 2150 experiments (seven different labs from those previously completed). Registration by special arrangements with the Department of Physics. Prereqs., PHYS 1120 and 1140. Same as PHYS 2150.

College of Arts & Sciences Physics

PHYS-2170 (3) Foundations of Modern Physics

For physics majors in plans 1 and 2 and those studying computer applications in physics. Completes the three-semester sequence of general physics. Emphasizes developing skills for physics majors. Includes relativity, quantum mechanics, atomic structure. Normally taken with the laboratory PHYS 2150. Prereq., PHYS 1120. Coreq., MATH 2400 or APPM 2350.

College of Arts & Sciences Physics

PHYS-2210 (3) Classical Mechanics and Mathematical Methods 1

Theoretical Newtonian mechanics, including position and velocity dependent forces, oscillation, stability, non-inertial frames and gravitation from extended bodies. Ordinary differential equations, vector algebra, curvilinear coordinates, complex numbers, and Fourier series will be introduced in the context of the mechanics. Prereqs., PHYS 2130 or 2710, MATH 2400 or APPM 2350. Coreq., APPM 2360. Credit not granted for this course and PHYS 2140. Prerequisites: Restricted to Physics, Engineering Physics or Astronomy majors only.

College of Arts & Sciences | Physics

PHYS-2810 (1-3) Special Topics in Physics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Physics

PHYS-2840 (1-3) Independent Study

Selected topics for undergraduate independent study. Subject matter to be arranged. May be repeated up to 7 total credit hours.

College of Arts & Sciences | Physics

PHYS-3000 (3) Science and Public Policy

For nonscience majors. Reading, discussions, debates, and lectures are used to study how science affects society economically, intellectually, and in terms of health and national security. Another focus is how government fosters and funds scientific activities. Recommended prereq., completion of core science requirement.

College of Arts & Sciences | Physics

PHYS-3050 (3) Writing in Physics: Problem-Solving and Rhetoric

Teaches strategies used in scientific writing with an emphasis on argument, reviews and reinforces essential writing skills, provides experience in writing both academic and professional communications in a style appropriate to the literature of physics. Prereqs., PHYS 2130 or 2170 and lower-division core writing requirement. Approved for GT-C03. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Physics

PHYS-3070 (3) Energy and the Environment

Contemporary issues in energy consumption and its environmental impact, including fossil fuel use and depletion; nuclear energy and waste disposal; solar, wind, hydroelectric, and other renewable sources; home heating; energy storage; fuel cells; and alternative transportation vehicles. Included are some basic physical concepts and principles that often constrain choices. No background in physics is required. Approved for arts and sciences core curriculum: natural science. Same as ENVS 3070.

College of Arts & Sciences Physics

PHYS-3210 (3) Classical Mechanics and Mathematical Methods 2

Lagrangian and Hamiltonian treatment of theoretical mechanics, including coupled oscillations, waves in continuous media, central force motion, rigid body motion and fluid dynamics. The calculus of variations, linear algebra, tensor algebra, vector calculus, and partial differential equations will be introduced in the context of the mechanics. Prereqs., PHYS 2210, APPM 2360, or equivalent.

College of Arts & Sciences Physics

PHYS-3220 (3) Quantum Mechanics and Atomic Physics 1

Introduces quantum mechanics with wave, operator, and matrix computational techniques. Investigates solutions for harmonic oscillator, potential well, and systems with angular momentum. Develops a quantitative description of one-electron atoms in lowest order. Prereqs., PHYS 2130 or 2170, 2210, and 3210. Prerequisites: Requires pre-requisite courses of PHYS 2210 and 3210, and PHYS 2130 or 2170.

College of Arts & Sciences Physics

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Courses

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PHYS

PHYS-3221 (1) Tutorial Practicum for Quantum Mechanics 1

Uses interactive group work to aid student learning in co-requisite course PHYS 3220. In this tutorial, students will work in small groups to practice how to solve challenging problems and their underlying conceptual basis, as well as using hands-on activities, demonstrations, and other techniques to help learn content. Coreq., PHYS 3220.

College of Arts & Sciences Physics

PHYS-3310 (3) Principles of Electricity and Magnetism 1

Covers mathematical theory of electricity and magnetism, including electrostatics, magnetostatics, and polarized media, and provides an introduction to electromagnetic fields, waves, and special relativity. Prerequisites: Requires pre-requisite courses of PHYS 2210 and PHYS 2130 or 2170.

College of Arts & Sciences Physics

PHYS-3311 (1) Tutorial Practicum for Electricity & Magnetism 1

Uses interactive group work to aid student learning in co-requisite course PHYS 3310. In this tutorial, students will work in small groups to practice how to solve challenging problems and their underlying conceptual basis, as well as using hands-on activities, demonstrations, and other techniques to help learn content. Coreq., PHYS 3310.

College of Arts & Sciences Physics

PHYS-3320 (3) Principles of Electricity and Magnetism 2

Continuation of PHYS 3310. Electromagnetic induction; magnetic energy; microscopic theory of magnetic properties; Ac circuits; Maxwell's Equations; planewaves; waveguides and transmission lines; radiation from electric and magnetic dipoles and from an accelerated charge. Prereq., PHYS 3310.

College of Arts & Sciences Physics

PHYS-3330 (2) Electronics for the Physical Sciences

One lect. and one three-hour lab per week. Introduces laboratory electronics for physical science students. Includes basic electronic instruments, dc bridge circuits, operational amplifiers, bipolar transistors, field-effect transistors, photodiodes, noise in electronic circuits, digital logic, and microcontrollers. Students gain hands-on experience in designing, building, and debugging circuits. Concludes with a three-week project in which students design and build an experiment of their choice and present a seminar on the results. Prereq., PHYS 2150 and 2130 or 2170.

College of Arts & Sciences Physics

PHYS-3340 (3) Introductory Research in Optical Physics

Two lect., one three-hour lab plus variable unsupervised labs each week. Students design and build their own experiments using a modular type of optical research kit. Experiments cover basic research methods in instrument design, laser physics, Fourier optics, holography, spectroscopy, and interferometry. Students learn how to plan major projects and evaluate critically the significance of results. Course concludes with a four-week major project. Prereq., PHYS 3330.

College of Arts & Sciences Physics

PHYS-4130 (3) Biological Electron Microscopy: Principles and Recent Advances

Prereq., EBIO 1220, or MCDB 1150, or MCDB 4500/5500, or PHYS 1120, or 2020, or instructor consent. Same as PHYS 5130 and MCDB 4130.

College of Arts & Sciences Physics

PHYS-4150 (3) Plasma Physics

Discusses the fundamentals of plasma physics, including particle motion in electromagnetic fields, wave propagation, collisions, diffusion, and resistivity. Presents examples from space plasmas, astrophysical plasmas, laboratory fusion plasmas, and plasmas in accelerators. Prereqs., PHYS 1110--1120, PHYS 3310, and MATH 2400 or APPM 2350.

College of Arts & Sciences Physics

PHYS-4230 (3) Thermodynamics and Statistical Mechanics

Statistical mechanics applied to macroscopic physical systems; statistical thermodynamics, classical thermodynamics systems; applications to simple systems. Examines relationship of statistical to thermodynamic points of view. Prereqs., PHYS 3220 and APPM 2360.

College of Arts & Sciences | Physics

PHYS-4340 (3) Introduction to Solid State Physics

Primarily for senior physics majors. Discusses crystal structure, lattice dynamics, band theory, semiconductors, and ferromagnetism. Prereq., PHYS 3220. Same as ECEN 4345.

College of Arts & Sciences | Physics

PHYS-4410 (3) Quantum Mechanics and Atomic Physics 2

Extends quantum mechanics to include perturbation theory and its applications to atomic fine structure, interactions with external forces, the periodic table, and dynamical processes including electromagnetic transition rates. Prereqs., PHYS 3220, 3320.

College of Arts & Sciences | Physics

PHYS-4420 (3) Nuclear and Particle Physics

Introduces structure of the atomic nucleus, spectroscopy of subnuclear particles, scattering, reactions, radioactive decay, fundamental interactions of quarks and leptons. Prereq., PHYS 4410.

College of Arts & Sciences | Physics

PHYS-4430 (3) Introduction to Research in Modern Physics

One lect., one lab per week to be taken with PHYS 4410. Experiments introduce students to realities of experimental physics so they gain a better understanding of theory and an appreciation of the vast amount of experimental work done in the physical sciences today. Prereqs., PHYS 3220 and 3320. Coreq., PHYS 4410. Same as PHYS 5430.

College of Arts & Sciences | Physics

PHYS-4450 (3) History and Philosophy of Physics

Investigates the role of experiment in physics; case studies in the history and philosophy of physics and in scientific methodology. Prereq., PHYS 1020 or 1120 or 2020 or instructor consent. Same as PHYS 5450, PHIL 4450.

College of Arts & Sciences Physics

PHYS-4460 (3) Teaching and Learning Physics

Learn how people understand key concepts in physics. Through examination of physics content, pedagogy and problems, through teaching, and through research in physics education, students will explore the meaning and means of teaching physics. Students will gain a deeper understanding of how education research is done and how people learn. Useful for all students, especially for those in interested in physics, teaching and education research. Prereq., PHYS 3210 and 3310 or instructor consent. Same as PHYS 5560 and EDUC 4460.

College of Arts & Sciences Physics

PHYS-4510 (3) Optics

Basic electromagnetic theory of light, using Maxwell's equations. Examples in geometrical optics; extensive applications in physical optics including diffraction and polarization. Spectra, including Zeeman effect and fluorescence. Recent advances in experimental techniques: microwaves, lasers, image converters. Prereq., PHYS 3320.

College of Arts & Sciences Physics

PHYS-4610 (2) Physics Honors

Students are matched with a faculty member and work independently on a research topic. Typically, the honors program lasts three semesters. A senior thesis and an oral presentation of the work are required. See also PHYS 4620 and PHYS 4630. Prereq., 3.00 GPA. Registration by special arrangement with the Department of Physics.

College of Arts & Sciences Physics

PHYS-4620 (2) Physics Honors

Students are matched with a faculty member and work independently on a research topic. Typically, the honors program lasts three semesters. A senior thesis and an oral presentation of the work are required. See also PHYS 4610 and PHYS 4630. Prereq., 3.00 GPA. Registration by special arrangement with the Department of Physics.

College of Arts & Sciences Physics

PHYS-4630 (2) Physics Honors

Students are matched with a faculty member and work independently on a research topic. Typically, the honors program lasts three semesters. A senior thesis and an oral presentation of the work are required. See also PHYS 4610 and PHYS 4620. Prereq., 3.00 GPA. Registration by special arrangement with the Department of Physics.

College of Arts & Sciences Physics

PHYS-4810 (1-3) Special Topics in Physics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. See also PHYS 4820 and PHYS 4830. May be repeated up to 7 total credit hours.

College of Arts & Sciences Physics

PHYS-4840 (1-3) Independent Study

Selected topics for undergraduate independent study. Subject matter to be arranged. See also PHYS 4850. May be repeated up to 7 total credit hours.

College of Arts & Sciences Physics

PHYS-4850 (1-3) Independent Study

Selected topics for undergraduate independent study. Subject matter to be arranged. See also PHYS 4840. May be repeated up to 7 total credit hours.

College of Arts & Sciences Physics

PHYS-4970 (3) Seminar on Physical Methods in Biology

Prereq., PHYS 1120 or 2020, and MCDB 1060 or 1150, or EBIO 1220, or instructor consent. Same as PHYS 5970 and MCDB 4970.

College of Arts & Sciences Physics

PHYS-5030 (3) Intermediate Mathematical Physics 1

This course and its continuation, PHYS 5040, form a survey of classical mathematical physics. Studies complex variable theory and finite vector spaces, and includes topics in ordinary and partial differential equations, boundary value problems, potential theory, and Fourier analysis. Prereqs., MATH 4001 and 4320. Same as MATH 5030. Prerequisites: Restricted to Graduate Students only.

PHYS-5040 (3) Intermediate Mathematical Physics 2

Continuation of PHYS 5030. Includes group theory, special functions, integral transforms, integral equations, and calculus of variations. Prereq., PHYS 5030. Same as MATH 5040.



Courses

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PHYS

PHYS-5130 (3) Biological Electron Microscopy: Principles and Recent Advances

Same as PHYS 4130 and MCDB 5130.

College of Arts & Sciences Physics

PHYS-5141 (3) Astrophysical and Space Plasmas

Covers magnetohydrodynamics and a few related areas of plasma physics applied to space and astrophysical systems, including planetary magnetospheres and ionospheres, stars, and interstellar gas in galaxies. Prereq., graduate standing in astrophysical and planetary science or physics. Same as ASTR 5140.

College of Arts & Sciences Physics

PHYS-5150 (3) Introductory Plasma Physics

Includes basic phenomena of ionized gases, static and dynamic shielding, linear waves, instabilities, particles in fields, collisional phenomena, fluid equations, collisionless Boltzman equations, Landau damping, scattering and absorption of radiation in plasmas, elementary nonlinear processes, Wkb wave theory, controlled thermonuclear fusion concepts, astrophysical applications, and experimental plasma physics (laboratory). Prereq., PHYS 3310. Same as ASTR 5150.

College of Arts & Sciences Physics

PHYS-5160 (3) Fundamentals of Optics and Lasers

Covers the basic physics of lasers. Topics include basics of optical resonators and gaussian beam propagation, stimulated emission, laser threshold conditions, laser linewidth, q-switching and mode locking of lasers, tuning of Cw lasers, and specifics of various common lasers. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5210 (3) Theoretical Mechanics

Variational principles, Lagrange's equations, Hamilton's equations, motion of rigid body, relativistic mechanics, transformation theory, continuum mechanics, small oscillations, Hamilton-Jacobi theory. Coreq., PHYS 5250. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5250 (3) Introduction to Quantum Mechanics 1

Quantum phenomena, Ehrenfest theorem and relation to classical physics, applications to one-dimensional problems, operator techniques, angular momentum and its representations, bound states and hydrogen atom, and Stern-Gerlach experiment and spin and spinor wave function. Prereqs., PHYS 3220 and 4410. Coreq., PHYS 5210. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5260 (3) Introduction to Quantum Mechanics 2

Symmetries and conservation laws, identical particle systems, approximation techniques (including time-dependent and time-independent perturbation theories and variational techniques) and their applications, scattering theory, radiative transitions, and helium atom. Prereq., PHYS 5250.

College of Arts & Sciences | Physics

PHYS-5430 (3) Introduction to Research in Modern Physics

Same as PHYS 4430.

College of Arts & Sciences | Physics

PHYS-5450 (3) History and Philosophy of Physics

Same as PHYS 4450 and PHIL 5450. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-5460 (3) Teaching and Learning Physics

Same as PHYS 4460 and EDUC 5460. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Physics

PHYS-5606 (3) Optics Laboratory

Consists of 13 optics experiments that introduce the techniques and devices essential to modern optics, including characterization of sources, photodetectors, modulators, use of interferometers, spectrometers, and holograms, and experimentation of fiber optics and Fourier optics. Prereq., undergraduate optics course such as PHYS 4510. Same as ECEN 5606.

College of Arts & Sciences Physics

PHYS-5770 (3) Gravitational Theory (Theory of General Relativity)

Presents Einstein's relativistic theory of gravitation from geometric viewpoint; gives applications to astrophysical problems (gravitational waves, stellar collapse, etc.). Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Physics

PHYS-5840 (1-3) Selected Topics for Graduate Independent Study

Subject matter to be arranged. May be repeated up to 7 total credit hours.

College of Arts & Sciences Physics

PHYS-5970 (3) Seminar: Physical Methods in Biology

Same as PHYS 4970 and MCDB 5970. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Physics

PHYS-6260 (3) Geometry of Quantum Fields and Strings

Focuses on differential geometric techniques in quantum field and string theories. Topics include spinors, Dirac operators, index theorem, anomalies, geometry of superspace, supersymmetric quantum mechanics and field theory, and nonperturbative aspects in field and string theories. Prereq., MATH 6230, PHYS 5250, or instructor consent. Recommended prereqs., MATH 6240 and PHYS 7280. Same as MATH 6260.

College of Arts & Sciences | Physics

PHYS-6610 (3) Earth and Planetary Physics 1

Same as GEOL 6610 and ASTR 6610.

College of Arts & Sciences | Physics

PHYS-6620 (3) Earth and Planetary Physics 2

Same as GEOL 6620 and ASTR 6620. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-6630 (3) Earth and Planetary Physics 3

Same as GEOL 6630 and ASTR 6630.

College of Arts & Sciences | Physics

PHYS-6650 (1-3) Seminar in Geophysics

Advanced seminar studies in geophysical subjects for graduate students. Same as ASTR 6650 and GEOL 6650. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-6670 (2) Geophysical Inverse Theory

Prereqs., calculus, computer programming (any language). Same as GEOL 6670. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Physics

PHYS-6940 (1) Master's Degree Candidate

College of Arts & Sciences | Physics

PHYS-6950 (1-6) Master's Thesis

Approved problem in theoretical or experimental physics under the direction of staff members. Intended to introduce the student to procedures in research and development work. Work of an original nature expected. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Physics

PHYS-7160 (3) Intermediate Plasma Physics

Continuation of PHYS 5150. Topics vary yearly but include nonlinear effects such as wave coupling, quasilinear relaxation, particle trapping, nonlinear Landau damping, collisionless shocks, solutions; nonneutral plasmas; kinetic theory of waves in a magnetized plasma; anisotropy; inhomogeneity; radiation---ponderomotive force, parametric instabilities, stimulated scattering; plasma optics; kinetic theory, and fluctuation phenomena. Prereq., PHYS 5150 or instructor consent. Same as ASTR 7160.

College of Arts & Sciences Physics

PHYS-7230 (3) Statistical Mechanics

Classical and quantum statistical theory, including study of both equilibrium and nonequilibrium systems. Topics covered include kinetic theory, degenerate gases, macrocanonical and grand canonical ensembles, and irreversible processes. Prereq., PHYS 5250 and 5260.

College of Arts & Sciences Physics

PHYS-7240 (3) Advanced Statistical Mechanics

Introduces current research topics in statistical mechanics. Topics vary from year to year and may include phase transitions, critical phenomena, nonequilibrium phenomena, dense fluids, dynamical systems, plasma physics, or quantum statistical mechanics. Prereq., PHYS 7230.

College of Arts & Sciences Physics

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PHYS

PHYS-7250 (3) Quantum Many Body Theory

Theory of quantum many body systems, including methods based on Green's functions, Feynman diagrams, and coherent state path integral with applications to interacting quantum gases, superconductivity and superfluidity, quantum phase transitions, quantum magnetism, quantum motion in the presence of disorder, and topological states of matter. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Physics](#)

PHYS-7270 (3) Introduction to Quantum Mechanics 3

Radiation theory; relativistic wave equations with simple applications; introduction to field theory and second quantization. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Physics](#)

PHYS-7280 (3) Advanced Quantum Theory

Quantum theory of fields, elementary particles, symmetry laws, and topics of special interest. Prereq., PHYS 7270 or instructor consent.

[College of Arts & Sciences](#) [Physics](#)

PHYS-7310 (3) Electromagnetic Theory 1

Sophisticated approach to electrostatics, boundary value problems, magnetostatics, applications of Maxwell's equations to electromagnetic wave propagation, wave guides, and resonant cavities and magnetohydrodynamics. See also PHYS 7320. Prereq., PHYS 5030. Prerequisites: Restricted to Graduate Students only.

PHYS-7320 (3) Electromagnetic Theory 2

This is a continuation of PHYS 7310. Topics include relativistic particle dynamics; radiation by moving charges; multiple fields; radiation damping and self-fields of a particle; collisions between charged particles and energy loss; radiative processes; and classical field theory. See also PHYS 7310. Prereq., PHYS 7310.

PHYS-7440 (3) Theory of the Solid State

Stresses application to the solid state of physical concepts basic to much of modern physics, single-particle approximation, and the energy-band description of electron states in solids, pseudopotential theory applied to ordered and disordered systems, dynamical behavior of electrons in solids, lattice dynamics, Hartree-Fock and random-phase approximation in solids, many-body aspects of magnetism, and superconductivity. Prerequisites: Restricted to Graduate Students only.

PHYS-7450 (3) Theory of Solid State 2

The second semester of condensed matter physics covers topics in soft condensed matter physics, liquid crystals, semiconductors, Quantum Hall effect, Fractional Quantum Hall effect, superconductivity, and other topics at the discretion of the instructor.

PHYS-7550 (3) Atomic and Molecular Spectra

Covers theory of atomic structure and spectra, including coupling of angular momenta, tensor operators, energy levels, fine and hyperfine structure, transition probabilities, Zeeman and Stark effects. Molecular spectra: electronic, vibrational, and rotational states. Rotation matrices, symmetric top.

PHYS-7730 (3) Theory of Elementary Particles

Systematics of elementary particles, leptons, quarks, gauge bosons, symmetries and symmetry breaking, scattering cross sections, decay rates, electron-positron annihilation, lepton scattering and hadron structure, quantum chromodynamics, electroweak interactions, gauge theories.

PHYS-7810 (1-3) Special Topics in Physics

Various topics not normally covered in the curriculum; offered intermittently depending on student demand and availability of instructors. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Physics

PHYS-7840 (1-3) Selected Topics for Graduate Independent Study

Subject matter to be arranged. May be repeated up to 7 total credit hours. Same as PHYS 7850.

College of Arts & Sciences Physics

PHYS-7850 (1-3) Selected Topics for Graduate Independent Study

Subject matter to be arranged. May be repeated for a total of 7 credit hours. Same as Phys 7840.

College of Arts & Sciences Physics

PHYS-7915 (1) Seminar Topics in Physics

Various seminar topics not normally covered in the curriculum: offered intermittently depending on student demand and availability of instructors. May be repeated up to 3 hours per semester. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Physics

PHYS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Physics



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PMUS

PMUS-1105 (1) Keyboard Musicianship 1

Introduces the keyboard, music reading in the treble and bass clefs, basic theory and keyboard harmony, technical patterns, and improvisation. Studies easy classical and pop repertoire. May be repeated up to 12 total credit hours. Restricted to music majors with no keyboard experience or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) | [Music](#) | [Keyboard Musicianship](#)

PMUS-1184 (1) Voice Class

Involves basic vocal technique and easy solo repertoire taught through a group medium, for beginner and intermediate level students. May be repeated up to 6 total credit hours. Restricted to MUSC majors. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Voice](#)

PMUS-1205 (1) Keyboard-Musicianship 2

Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) | [Music](#) | [Keyboard Musicianship](#)

PMUS-1515 (2) Jazz Piano Class

Offers small group instruction in the concepts and skills required to learn jazz piano. Students not only learn basic techniques required to play jazz but also become familiar with the theory, grammar, and lexicon of the jazz language. May be repeated up to 4 total credit hours. Prereq., PMUS 1205 or instructor consent required. Offered spring only. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Keyboard Musicianship

PMUS-2105 (1) Keyboard-Musicianship 3

Continuation of PMUS 1205. May be repeated up to 12 total credit hours. Prereq., PMUS 1205 or instructor consent required. Prerequisites: Restricted to Music majors or graduate students only.

College of Music Music Keyboard Musicianship

PMUS-2184 (1) Voice Class.

Continuation of Pmus 1184, with more advanced repertoire and vocal techniques. May be repeated up to 6 total credit hours. Prereq., Pmus 1184. Restricted to Musc majors. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Voice

PMUS-2205 (1) Keyboard-Musicianship 4

Prerequisites: Restricted to College of Music undergraduate students only.

College of Music Music Keyboard Musicianship

PMUS-3167 (3) Opera Theatre Stagecraft

Introduction to the processes, materials, and equipment used in theatrical production. Lecture and lab requirements. Lab experiences include introductory work in the opera scenery, property, costume, and electrical shops. Prerequisites: Restricted to Music majors or graduate students only.

College of Music Music Voice

PMUS-3271 (2) Basic Improvisation

The exploration of basic music improvisation; performance in various musical styles. Prereq. MUSC 2111 or instructor consent. Offered spring of even-numbered years.

College of Music Music Choral and Instrumental Music

PMUS-4105 (1) Supervised Accompanying

Assigned projects, both vocal and instrumental, are coached by collaborative piano faculty and others. May involve recital, jury, or master class performances. Prereq., MUSC 1325 and MUSC 2365 or instructor consent. Prerequisites: Requires pre-requisite course of MUSC 1325 and MUSC 2365). Restricted to Music majors or graduate students only.

College of Music | Music | Keyboard Musicianship

PMUS-4137 (1) Opera Theatre 1

Addresses issues related to young artist development. Areas of concentration include (but are not limited to) acting technique, resume preparation, audition technique, scene analysis, and role preparation. The acting technique is addressed in this course through textbook reading and exercise. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

PMUS-4147 (1) Opera Theatre 2

Continuation of PMUS 4137. Further scene analysis and movement exercises are addressed in this class. May be repeated up to 12 total credit hours. Prereq., PMUS 4137. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-4157 (1-3) Opera Practicum

Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

PMUS-4167 (1-3) Opera Theatre Lab

Advanced work in the scenery, property, costume, and electrical shops in opera performance. Additional experiences may include positions with opera run crews, the box office, or other supporting areas. May be repeated up to 12 total credit hours. Prerequisites: Restricted to College of Music undergraduate students only.

College of Music | Music | Voice

PMUS-4497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. May be repeated up to 12 credit hours. Prerequisites: Restricted to Music majors or graduate students only.

College of Music | Music | Voice

PMUS-4517 (2) Orchestral Repertoire

Trains practice techniques for String Players to master orchestral excerpts needed for all orchestra and festival auditions. Through careful listening students learn to improve the four basic elements of orchestral excerpt preparation: Rhythm, Intonation, Tone Quality,

Interpretation. Prerequisites: Restricted to Music majors or graduate students only.

[College of Music](#) [Music](#) [Choral and Instrumental Music](#)

PMUS-5137 (2) Opera Theatre 1

Addresses issues related to young artist development at the graduate level. Areas of concentration will include (but are not limited to) acting technique for singers, resume preparation and scene and character analysis. Students will participate in acting and improvisation exercises. Substantial classical voice study is required and this course is recommended for voice majors only. May be repeated up to 12 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) [Music](#) [Voice](#)

PMUS-5147 (2) Opera Theatre 2

Continuation of PMUS 5137. May be repeated up to 12 total credit hours. Prereq., PMUS 5137.

[College of Music](#) [Music](#) [Voice](#)

PMUS-5184 (1) Graduate Voice Class

Teaches solo and choral singing and vocal modeling. Designed for choral and music education graduate students. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) [Music](#) [Voice](#)

PMUS-5497 (1-2) Vocal Repertoire Coaching

Group coaching class to prepare for voice recitals as well as to learn vocal repertoire including historical background, composers, styles, and poetic interpretation. Class may fulfill voice literature requirements when appropriate classes are not offered. Also available: weekly individual coaching to prepare for voice recitals and other projects. Diction, musical styles, and interpretation (music and text) are the main focus of this course. May be repeated up to 12 credit hours. for graduate voice students and collaborative pianists. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) [Music](#) [Voice](#)



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

PORT

PORT-1010 (5) Beginning Portuguese 1

Offers students a firm command of Portuguese grammar. Uses grammar as point of departure for development of oral skills. Reading and writing stressed to lesser degree. Attendance at language laboratory may be mandatory.

[College of Arts & Sciences](#) [Spanish](#) [Portuguese](#)

PORT-1020 (5) Beginning Portuguese 2

Continuation of PORT 1010. Prereq., PORT 1010 (min. grade C-) or placement.

[College of Arts & Sciences](#) [Spanish](#) [Portuguese](#)

PORT-2110 (3) Second-Year Portuguese 1

Includes grammar review and a study of Portuguese and Brazilian culture, civilization, literature, and art. Prereq., PORT 1020 (min. grade C-) or placement. Approved for GT-AH4. Meets MAPS requirement for foreign language.

[College of Arts & Sciences](#) [Spanish](#) [Portuguese](#)

PORT-2120 (3) Second-Year Portuguese 2

Includes grammar review and a study of Portuguese and Brazilian culture, civilization, literature, and art. Prereq., PORT 2110 (min. grade C-) or placement.

College of Arts & Sciences Spanish Portuguese

PORT-2150 (5) Intensive Second-Year Portuguese.

Intensive review of grammar and other subjects normally covered in Port 2110 and 2120. Attendance at the language laboratory may be mandatory. Prereq., Port 1020 (min. grade of C-), or placement and departmental approval. Credit not granted for this course and Port 2110 and 2120. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Portuguese

PORT-2350 (3) Portuguese for Spanish Speakers

Intensive introduction to the Portuguese language for those able to speak Spanish. Prereq., five semesters of college Spanish or equivalent, SPAN 3000, placement, or departmental approval.

College of Arts & Sciences Spanish Portuguese

PORT-3003 (3) Advanced Portuguese Language Skills

Builds vocabulary and competence in more sophisticated written Portuguese. Involves composition, reading, grammar and class discussion. Themes are drawn primarily from current issues in Brazil. Mandatory for the Portuguese-track majors. Prereqs., PORT 2120 or 2150 or 2350.

College of Arts & Sciences Spanish Portuguese

PORT-3220 (3) Latin American Culture: Spanish America and Brazil

Examines literary, artistic, and philosophical currents in Spanish America and Portuguese America (Brazil), from pre-Columbian times to the present. Taught in Spanish. Prereq., SPAN 3000. Recommended prereqs., PORT 2110 and 2120. Credit not granted for this course and SPAN 3210. Same as SPAN 3220.

College of Arts & Sciences Spanish Portuguese

PORT-3230 (3) Lusophone Cultures: Brazil, Portugal, and Lusophone Africa

Examines literary, artistic and intellectual currents in Brazil, Portugal and Lusophone Africa from the 15th century period of Portuguese expansion to the post-colonial present. Taught in Portuguese. Prereqs., PORT 2110, 2120 and 2350 (min. grade C-) or departmental approval.

College of Arts & Sciences Spanish Portuguese

PORT-4110 (3) Survey of Brazilian Literature

Examines major works of Brazilian literature. Prereqs., PORT 2120, 2350 and 3230 (min. grade C-) or equivalent. Same as PORT 5110.

College of Arts & Sciences Spanish Portuguese

PORT-4150 (3) Survey of Portuguese Literature

Examines major works of Portuguese literature. Prereqs., PORT 2120, 2350, and 3230 (min. grade C-) or equivalent. Same as PORT 5150.

College of Arts & Sciences Spanish Portuguese

PORT-4230 (3) Special Topics in Luso-Brazilian and/or African Literature

Designed to examine intensively particular topics or issues concerning the literatures of Portugal, Brazil, and/or the African countries of Portuguese colonization. Taught in Spanish. May be repeated up to 6 total credit hours. Prereqs., PORT 3230, SPAN 3100, 3120, and an additional course above SPAN 3000. Same as SPAN 4230.

College of Arts & Sciences Spanish Portuguese

PORT-4840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., departmental approval.

College of Arts & Sciences Spanish Portuguese

PORT-5110 (3) Survey of Brazilian Literature

Same as PORT 4110.

College of Arts & Sciences Spanish Portuguese

PORT-5150 (3) Survey of Portuguese Literature

Same as PORT 4150.

[College of Arts & Sciences](#) [Spanish](#) [Portuguese](#)

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Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject Number

PRLC

PRLC-1810 (3) Ethical Leadership

Introduces fundamental principles of leadership and ethics. Emphasizes application of the principles for self-development and organizational effectiveness. Approved for arts and sciences core curriculum: ideals and values.

[Cross College Programs](#) | [Leadership Residential Academic Program](#)

PRLC-1820 (3) Community Issues in Leadership

Explores challenges to leadership at the community level such as drug abuse, poverty, decline of infrastructure, care of the aged, etc. Gives particular attention to the development of effective leadership responses to community difficulties at university, city, state, and national levels. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

[Cross College Programs](#) | [Leadership Residential Academic Program](#)

PRLC-2810 (3) Global Issues in Leadership

Examines the challenges of leadership posed by change and major global issues affecting everyone. Explores issues such as human rights, hunger, disease, large-scale collective violence, and environmental deterioration with a special emphasis on effective, long-term leadership strategies.

[Cross College Programs](#) | [Leadership Residential Academic Program](#)

PRLC-2820 (3) Multilevel Issues in Leadership

Studies multilevel issues that originate in organizational settings but carry community and global implications. Encourages students to fully explore the complexity and interrelatedness of issues with a special emphasis on leadership and ethical implications. Same as LDSP 2820.

[Cross College Programs](#) | [Leadership Residential Academic Program](#)

PRLC-2930 (3) Leadership Internship

Students analyze the leadership styles within a host organization, examine how successfully an organization fulfills its mission, and further refine their own theories of what constitutes effective leadership. Students also complete a meaningful project over the course of the internship. Prereqs., PRLC 1810, PRLC 1820, and PRLC 2820.

[Cross College Programs](#) | [Leadership Residential Academic Program](#)

PRLC-3810 (3) Global Issues in Leadership

Examines the challenges to leadership posed by major global issues. Problems in the areas of human rights, hunger, disease, large-scale collective violence, and environmental deterioration are explored with a special emphasis on the development of effective, long-term leadership strategies. Prereqs., PRLC 1810, PRLC 1820, and PRLC 2820.

[Cross College Programs](#) | [Leadership Residential Academic Program](#)

PRLC-4010 (4) 21st Century Leadership

An advanced course that focuses on critical analysis of leadership principles and techniques. Designed to provide theoretical and hands-on experience for individuals who wish to function in leadership roles at high levels of competence in the workplace and in the civic arena.

[Cross College Programs](#) | [Leadership Residential Academic Program](#)

PRLC-4081 (3) Icons of the American Republic

Examines the founding period of the United States through the events, political concepts and individuals depicted in the art exhibited in the U.S. Capitol Building in Washington, D.C. The course includes a visit to the U.S. Capitol Building, the floor of the U.S. House of Representatives, the floor of the U.S. Senate, and an exploration of the legislative process. Prereq., PSCI 1101 or 2012 or 2223 or 2004. Restricted to students with a minimum 3.4 GPA and 60 credit hours completed. PSCI 4081 and PRLC 4081 are the same course.

[Cross College Programs](#) | [Leadership Residential Academic Program](#)



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

PSCI

PSCI-1101 (3) The American Political System

Emphasizes interrelations among levels and branches of government, formal and informal institutions, processes, and behavior. Approved for GT-SS1. Meets MAPS requirement for social science: general or U.S. history. Approved for arts and sciences core curriculum: contemporary societies or United States context.

[College of Arts & Sciences](#) [Political Science](#) [American](#)

PSCI-2004 (3) Survey of Western Political Thought

Studies main political philosophies and political issues of Western culture, from antiquity to 20th century. Approved for GT-SS1. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Political Science](#) [Political Theory](#)

PSCI-2012 (3) Introduction to Comparative Politics

Most countries confront a variety of common political problems, including how to gain popular support, what kinds of political institutions are most appropriate, and how to distribute burdens and benefits to different segments of the population. Concentrates on learning how to compare different political systems and provides illustrative examples from several countries in both the industrialized and nonindustrialized world. Approved for GT-SS1. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Political Science](#) [Comparative](#)

PSCI-2028 (3) Special Topics

Offers subjects not covered by existing courses. Offered when department approves a special topic. May be repeated up to 12 total credit hours for different topics.

College of Arts & Sciences Political Science General

PSCI-2075 (3) Quantitative Research Methods

Introduces quantitative research methods used in political science. Focuses on basic tools of analysis: data collection, processing, and evaluation, with special attention to survey techniques. Includes elite and case study analysis; aggregate, cluster, and content analysis; and the use of computers in political research. Restricted to students with 6 completed hours of political science course work. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-2106 (3) Introduction to Public Policy Analysis

Studies policymaking processes in American government, factors shaping public decision, and issues and questions relevant to political inquiry.

College of Arts & Sciences Political Science Public Policy

PSCI-2116 (3) Introduction to Environmental Policy and Policy Analysis

Teaches a systematic general framework for the analysis of environmental policy issues. Analyzes the interaction of environmental sciences, ethics, and policy across a range of environmental policy problems. Stresses critical thinking and practical applications. Recommended prereq., ENVS 1000.

College of Arts & Sciences Political Science Public Policy

PSCI-2223 (3) Introduction to International Relations

Introduces the field of international relations, with general survey of the theories, histories, and problems of historical and contemporary relations among state and nonstate actors. Approved for GT-SS1. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Political Science International Relations

PSCI-2481 (3) Introduction to the Legal Process

Covers basic legal concepts and processes emphasizing the American system. Gives special attention to political functions of law. Recommended as preparation for PSCI 4241 and 4251. Prereq., PSCI 1101.

College of Arts & Sciences Political Science American

PSCI-3011 (3) The American Presidency

Covers constitutional and institutional foundations and historical development of the presidency; roles, powers, selection, recent modifications, and institutionalization. Uses lectures and class discussion. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science American

PSCI-3021 (3) U.S. Campaigns and Elections

Introduces students to the subjects, techniques, and findings of Political Science research on campaigns and elections. Particular emphasis is placed on the study of voting, campaign effects, partisan coalitions, electoral rules, campaign finance, and the policy impact of elections. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Political Science American

PSCI-3022 (3) Russian Politics

Examines the development of Russian politics from the late Soviet period to the present. Topics covered include political culture, democratic transition, economic reform, and social problems in Russia. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Political Science Comparative

PSCI-3031 (3) Political Parties and Interest Groups

Highlights the practice of party politics in the United States, including the nature, structure, organization, and functions of political parties and interest groups. Analyzes interest group politics and political behavior. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science American

PSCI-3032 (3) Latin American Political Systems

Stresses different perspectives on Latin American politics and understanding key political actors and processes. Country focus varies. Prereq., PSCI 2012, IAFS 1000, IAFS major, Latin American studies major, or instructor consent. Approved for arts and sciences core

curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Comparative

PSCI-3041 (3) The American Congress

Provides intensive examination of the role of Congress in American government, including congressional elections, representation, the organization of Congress, and congressional policy making. Examines larger context of congressional politics, including political parties, the president, and interest groups. Prereq., PSCI 1101.

College of Arts & Sciences Political Science American

PSCI-3051 (3) Public Opinion and Political Behavior

Examines measurement of public opinion and evaluation of its impact on governmental policy formation, including survey research techniques and field work in opinion sampling. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science American

PSCI-3052 (3) Women and Politics in Latin America

Examines ways Latin American women have engaged in politics and their participation in social movements, war, peace processes and elections. Focuses on why women "Do politics" in certain ways, the role of the State in women's politics, the (dis)advantages of various political strategies, and how political, economic and social changes have affected women's political opportunities and interests. Prereq., WMST 2000 or instructor consent. Recommended prereqs., WMST 2400, 2600, 3600 or 3730. Same as WMST 3650. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Comparative

PSCI-3054 (3) American Political Thought

Highlights the development of American political theories and ideas from colonial period to present. Can also be taken for American field credit. Recommended prereq., PSCI 2004. Approved for arts and sciences core curriculum: United States context or ideals and values. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Political Theory

PSCI-3061 (3) State Government and Politics

Examines politics in the American states from a comparative and historical perspective. Considers major political actors---interest groups, citizens (direct democracy), and political parties, as well as central institutions, in the state political arena. Also focuses on major state public policy concerns. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science American

PSCI-3062 (3) Revolution and Political Violence

Studies and evaluates alternative theoretical frameworks for the analysis of revolution and political violence. Theoretical material is firmly couched in case situations, such as ethnic, class, colonial, urban, racial, and religious conflicts. Prereq., PSCI 1101, 2012, or IAFS 1000. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Comparative

PSCI-3064 (3) Environmental Political Theory

Examines environmental discourses as conceptual means for theorizing environmental politics, and applies normative political theories to contemporary environmental policy issues. Considers the roles of political actors (individuals, groups, the state) in defining and addressing environmental problems on local, national, and global levels. Recommended prereq., PSCI 2004. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Political Science Political Theory

PSCI-3071 (3) Urban Politics

Examines the structure of political, social, and economic influence in urban areas. Focuses on the relationship of the political system to governmental, social, and economic institutions and the contemporary policy processes in American cities. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science American

PSCI-3072 (3) Government and Politics in Southeast Asia

Surveys historical and contemporary forces shaping politics in Southeast Asia. Gives special attention to comparative political economy, including development strategies and transitions to democracy. Prereqs., PSCI 2012 or IAFS 1000. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Comparative

PSCI-3074 (3) Dimensions of Citizenship in the US and the EU

Studies theories and problems related to citizenship in the US and the EU. This includes rights and restrictions of citizenship, issues of immigration, multicultural citizenship, globalization and citizenship. In the EU the relation between member nation citizenship and EU citizenship is a special problem. Examines how the US and EU compare. Approved for arts and sciences core curriculum: contemporary societies.

PSCI-3082 (3) Political Systems of Sub-Saharan Africa

Analyzes post-independence and post-Cold War change in sub-Saharan Africa and provides intensive case studies of selected countries exemplifying each type with South Africa seen as a special case. Prereq., PSCI 2012 or IAFS 1000. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject Number

PSCI

PSCI-3084 (3) Diversity, Disagreement, and Democracy: an Introduction to the Theory and Practice of Democracy

Examines the justification and limits for moral, political, and religious pluralism. The students will be trained in the practice of dialogue. They will research the historical context of a subject that would be appropriate for a dialogue and interview members of the community who have different perspectives on the subject. Restricted to students with minimum 26 hours completed.

College of Arts & Sciences Political Science Political Theory

PSCI-3091 (3) Politics of Social Movements

Examines theoretical and empirical research on social movements from a U.S. perspective. Considers why social movements arise, who participates in them, the tactics they employ, obstacles they face, and their political impact. Prereq., PSCI 1101.

College of Arts & Sciences Political Science American

PSCI-3092 (3) Comparative Political Economy

Presents theories on the interaction between policies and economics, economic models of politics, and familiarizes students with an approach that will prove useful in understanding current developments in both economics and politics. Explores relationships between financial markets, currency regimes, and politics with some special consideration of the behavioral foundations of political and economic developments. Prereq., PSCI 2012.

College of Arts & Sciences Political Science Comparative

PSCI-3101 (3) Black Politics

Examines structure of political, social, and economic influence in urban areas. Focuses on the relationship of political processes to governmental, social, and economic institutions and contemporary policy processes in American cities. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: human diversity.. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science American

PSCI-3102 (3) South Asian Politics

Examine the diverse political trajectories of four South Asian countries: India, Pakistan, Nepal, and Sri Lanka. Using a comparative lens, we will take into account historical, cultural, and economic, in addition to political, factors in deciphering this diversity of political paths. Prereqs., ASIA 1000, HIND 1011, HIST 1408, and PSCI 2012.

College of Arts & Sciences Political Science Comparative

PSCI-3105 (3) Designing Social Inquiry: An Introduction to Analyzing Political Phenomena

This course is designed to survey the wide range of research designs and methods employed in political science research, including normative analysis, interpretive analysis and causal analysis. It will provide an introduction to students planning to write honors theses and will be useful for any student planning to do research in political science as part of a senior seminar or capstone course. Approved for arts and sciences core curriculum: quantitative reasoning and mathematics. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-3123 (3) War, Peace, and Strategic Defense

Analyzes employment, or the threat of employing force, in securing American interests in the post-Cold War world. Gives special attention to utilities claimed for nuclear weapons, and alternatively, to weapons control and disarmament. Prereq., PSCI 2223.

College of Arts & Sciences Political Science International Relations

PSCI-3143 (3) Problems in International Relations

Analyzes the various theoretical and policy challenges facing the post-Cold War world, with an emphasis on examining alternative conceptions of and approaches to such challenges. Prereq., PSCI 2223. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science International Relations

PSCI-3163 (3) American Foreign Policy

Examines foundations, assumptions, objectives, dynamics, and methods of U.S. foreign policy since WWII. Gives special attention to domestic and external problems of adapting U.S. policy to the changing world environment. Prereq., PSCI 2223. Approved for arts and sciences core curriculum: United States context. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science International Relations

PSCI-3171 (3) Government and Capitalism in the United States

Examines competing theoretical approaches to questions related to origins, development, and purposes of modern government in the United States; particular attention paid to impact of transformations in the underlying structure of the capitalist economy. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Political Science American

PSCI-3191 (3) National Security Organization and Policy Making

Analyzes how the American governmental and political system is structured to define, select, and implement national security policies. Examines roles of the president, Congress, bureaucracy, interest groups, and other actors. Prereq., PSCI 1101.

College of Arts & Sciences Political Science American

PSCI-3193 (3) International Behavior

Presents alternate theoretical frameworks for the explanation of international processes. Applies theories of conflict behavior and social organization to problems of war and peace. Prereq., PSCI 2223. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science International Relations

PSCI-3206 (3) The Environment and Public Policy

Considers constitutional, political, and geographic factors in development of public policy affecting the use of natural resources and management of the environment; organization, procedures, and programs for use of natural resources; and administration of environmental policies. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Public Policy

PSCI-3225 (3) Rationality, Democracy, and Public Policy

Focuses on the rational choice approach to understanding social decision making. Examines possibilities for choosing rational courses of

social action and concrete problems of rational decision making. Prereqs., PSCI 1101 or 2012. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-3271 (3) Law and Society: The Interaction between Legal Institutions and Human Behavior

Examines relationship between human behavior and legal system, looking closely at the voluntary relationship between the citizen and the state, the use of law to balance economic liberty and equality, support for civil liberties, and procedural, distributive, and retributive justice. Prereq., PSCI 1101.

College of Arts & Sciences Political Science American

PSCI-3301 (3) Gender, Sexuality and U.S. Law

Contemporary and historic overview of U.S. courts' treatment of sex and gender. Using the case method, examines policy issues including, but not limited to: same sex marriage and civil unions; privacy; affirmative action; abortion; reproductive technologies; and discrimination based on sex and sexual orientation in education and in the workplace. Prereq., WMST 2000 or PSCI 1101. Same as WMST 3300. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Political Science American

PSCI-3311 (3) Gender and U.S. Politics: Protest, Polls and Policy

Provides an overview and critical examination of women as political actors within the United States. Students will examine the gendered components of citizenship, election, political office, and public policy. Furthermore, students will explore the ways in which gender intersects with class, race, ethnicity, sexual orientation, and other identities in U.S. politics. Same as WMST 3311.

College of Arts & Sciences Political Science American

PSCI-4002 (3) Western European Politics

Comparatively analyzes development of the political systems and processes of European democracies. Emphasizes contemporary institutions, decision making patterns, and policy issues. Special attention to challenges of welfare systems. Prereq., PSCI 2012 or IAFS 1000. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Comparative

PSCI-4008 (3) Political Science Honors Thesis

Involves writing an honors thesis. Prereq., PSCI 4718.

College of Arts & Sciences Political Science General

PSCI-4012 (3) Global Development

Analyzes development theory, case studies in development strategies, and the problems and promises of development: specifically issues of gender, environment, labor, corruption and poverty. The primary focus is on explanations for variation in level of development over time and across countries. Prereq., PSCI 2012, ECON 2020, IAFS 1000, or one upper-division PSCI course. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Comparative

PSCI-4022 (3) Chinese Foreign Policy

History of China's external relations and theories of foreign policy decision making. Explores two vital bilateral relations (Sino-U.S. and Sino-Japanese) and several key issues (like Taiwan) in China's 21st century foreign policy. Prereq., PSCI 2012. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Comparative

PSCI-4024 (3) Senior Seminar in Political Theory

Intensively analyzes and discusses major theories and issues of both contemporary political thought and the history of political philosophy. The topic is announced by the instructor, but might include analysis of concepts (justice, human rights, democracy, etc.) or major theories. Emphasizes advanced discussion plus individual research. Prereq., PSCI 2004.

College of Arts & Sciences Political Science Political Theory

PSCI-4028 (3) Special Topics

Offers subjects not covered by existing courses. Offered when the department approves a special topic. May be repeated up to 12 total credit hours for different topics. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science General

PSCI-4052 (3) Chinese Politics

Explores the politics of 20th century China to speculate on China's future in the 21st century. Begins with an extensive look at the political history of the People's Republic, before turning to social, cultural, economic, and political issues today. Concludes with an examination of Chinese foreign policy, with a focus on Sino-American relations. Prereq., PSCI 2012 or IAFS 1000. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

PSCI-4062 (3) The Emerging Democracies of Central and Eastern Europe

Studies developments in the former Soviet satellites and Yugoslavia, their governmental organizations, and their relation to the former Soviet Union and the West. Prereq., PSCI 2012 or IAFS 1000. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.



Courses

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PSCI

PSCI-4081 (3) Icons of the American Republic

Examines the founding period of the United States through the events, political concepts and individuals depicted in the art exhibited in the U.S. Capitol Building in Washington, D.C. The course includes a visit to the U.S. Capitol Building, the floor of the U.S. House of Representatives, the floor of the U.S. Senate, and an exploration of the legislative process. Prereq., PSCI 1101 or 2012 or 2223 or 2004. Restricted to students with a minimum 3.4 GPA and 60 credit hours completed. PSCI 4081 and PRLC 4081 are the same course. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#)
[Political Science](#)
[American](#)

PSCI-4092 (3) Comparative Urban Politics

Comparatively analyzes major urban systems in different political/economic settings and Third-World countries. Gives special attention to political and economic factors shaping urbanization processes and distinctive policy issues in these different settings. Recommended prereqs., PSCI 1101 and 3071. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[Political Science](#)
[Comparative](#)

PSCI-4122 (3) The Military in Politics: Latin America and the U.S.

Analyzes the causes and consequences of military intervention in politics, contrasting patterns of civil-military relations, and the problem of democratic control of the armed forces. Focuses on the Latin American military, with secondary attention to U.S. military. Prereq., PSCI 2012 or IAFS 1000, and PSCI or ROTC major. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[Political Science](#)
[Comparative](#)

PSCI-4131 (3) Latinos and the U.S. Political System

Examines the political status and activities of Mexican Americans and other Latino groups (Cuban Americans and Puerto Ricans) in the U.S. Also covers Latino political attitudes and behaviors; Latino efforts to influence the major national, state, and local institutions of the American government; and public policy concerns of Latinos. Recommended prereq., PSCI 1101. Restricted to sophomores/juniors/seniors. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Political Science American

PSCI-4173 (3) International Organization

Analyzes international organizations to determine whether they are an effective instrument for achieving peace and security and for the promotion of human welfare. Prereq., PSCI 2223. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science International Relations

PSCI-4183 (3) International Law

Investigates the body of law that regulates relations between nation states and provides a framework for the solving of common problems. Explores its nature and effectiveness as well as its adaptability to a changing environment. Prereq., PSCI 2223. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science International Relations

PSCI-4193 (3) International Political Economy

Analyzes issues at the intersection of international politics and international economics. Utilizes theories and concepts from both economics and political science to understand issues in trade, finance, development and migration. Prereq., PSCI 2223.

College of Arts & Sciences Political Science International Relations

PSCI-4213 (3) Europe in the International System

Covers European and Atlantic regionalism. Discusses such communities as the Council of Europe, NATO, EFTA, and OECD, and provides a detailed examination of the European Union. Looks at theories of integration, problems of partnership and interdependence, rival nationalisms and strategic doctrines, and problems of the post-Cold War era. Prereq., PSCI 2223.

College of Arts & Sciences Political Science International Relations

PSCI-4221 (3) Political Psychology

Examines the psychological foundations of political decision-making among citizens and elites. Considers the role of political psychology

in explaining political behavior and outcomes at the individual and collective level. Prereq., PSCI 1101.

College of Arts & Sciences Political Science American

PSCI-4241 (3) Constitutional Law 1

Focuses on the nature and scope of American constitutional principles as developed by the U.S. Supreme Court: federalism, jurisdiction of the federal courts, separation of powers, the taxing power, and the commerce power. Involves the case method. Prereq., PSCI 1101 and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Political Science American

PSCI-4242 (3) Middle Eastern Politics

Explores the domestic politics of various Middle Eastern countries as well as the development and globalization of the region. Includes topics such as the ongoing prevalence of dictatorships, political Islamism, oil politics, economic growth and stagnation, and relations with the U.S. Prereq., PSCI 2012.

College of Arts & Sciences Political Science Comparative

PSCI-4243 (3) Modern Warfare: Terrorism, Ideology, Identity

Explores the evolution of warfare and origins of terrorism. Ideological and identity differences have come to the forefront of violent political conflicts while the emerging doctrine of warfare has placed civilians in the middle of modern conflicts. Tracks potential changes in the means of and reasons for fighting, roles of civilians and media, and rules of war. Prereq., PSCI 2223. Recommended prereq., PSCI 3193. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science International Relations

PSCI-4251 (3) Constitutional Law 2

Continuation of PSCI 4241. Emphasizes war power, powers of the president, citizenship, the Bill of Rights, and the Civil War amendments. Involves the case method. Not open to freshmen. Prereq., PSCI 1101 or instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science American

PSCI-4252 (3) Politics of Ethnicity and Nationalism

Analyzes ethnic identity as a factor in contemporary politics. Deals extensively with the role of ethnic groups in political mobilization, the development of national collective consciousness, nation building, and international relations. Explores the influence of religion, language, history, culture and class on ethnic group formation and behavior. Prereq., PSCI 2012. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science Comparative

PSCI-4302 (3) European Union Politics

Explores the development, functioning, focus and future of the European Union. Examines history, institutions, policies and politics as well as governance theories that have been developed to explain origins and evolution of the EU. Prereq., PSCI 2012.

College of Arts & Sciences Political Science Comparative

PSCI-4312 (3) Politics and Language

Examines the politics of language. Topics covered include the primordial versus instrumental role of languages, the politics over minority language recognition, and the trade-offs surrounding the use of a lingua franca. Course will start with a regional focus on Asia then shift to the European Union and conclude in the United States. Prereq., PSCI 2012.

College of Arts & Sciences Political Science Comparative

PSCI-4341 (3) Political Communication

Examines aspects of political communication as it applies to citizens, political decision makers, and specific public policies. Prereq., PSCI 1101 or instructor consent. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Political Science American

PSCI-4701 (3) Symbolic Politics

Introduces uses and abuses of symbols as instruments and indicators of political change. Prereq., PSCI 1101. Recommended prereq., junior or senior standing.

College of Arts & Sciences Political Science American

PSCI-4703 (3) Alternative World Futures

Aims to help students think about the future of the world in a systematic way. Focuses on alternative projections and policies dealing with major problems. Prereq., PSCI 2223 and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Political Science International Relations

PSCI-4714 (3) Liberalism and Its Critics

Examines contemporary arguments for and against liberalism. Focuses on the analysis, evaluation, and understanding of the philosophical contributions to this debate. Gives special attention to the concepts of justice, freedom, equality, and individualism. Prereq., PSCI 2004. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Political Science Political Theory

PSCI-4715 (3) Honors Political Science Seminar

Involves writing and discussion of selected topics in political science. Critically reviews the major methodological and conceptual features of the discipline. Students begin their honors papers in the seminar. Prereq., GPA of at least 3.50. Formerly PSCI 4718. Generally offered in fall term only.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-4716 (3) Selected Policy Problems

Integrates general principles of policy inquiry with documents and other literature on specific problems in public policy, in order to evaluate courses of action. May be repeated up to 6 total credit hours on different topics. Prereq., PSCI 1101. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Political Science Public Policy

PSCI-4721 (3) Rethinking American Politics

Examines the political history and development of the United States of America. Looks at the particular policy choices we have made and examines the future political agenda. Prereqs., junior or senior standing and PSCI 1101 recommended. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Political Science American

PSCI-4731 (3) Progress and Problems in American Democracy

Closely examines the various understandings of democracy, the arguments for and against democracy, and the progress of and prospects for democratic politics in the United States. Particular attention is paid to economic, social, and political developments in the United States that affect popular sovereignty, political equality, and liberty. Prereq., PSCI 1101. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Political Science American

PSCI-4732 (3) Critical Thinking in Development

Exposes students to current issues in the political economy of development. Subjects range from globalization, democratization, and economic development. Specifically, the course explores the international and domestic determinants of economic development with

special reference to currency markets, foreign direct investment, trade, and democratization. Prereqs., PSCI 2012 or IAFS 1000, ECON 2010 and 2020, and one upper-division PSCI course. Same as INVS 4302. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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PSCI

PSCI-4734 (3) Politics and Literature

Broadly examines political topics as they are presented in important literary works and analyzes the possibilities involved in using the literary mode to present political teachings. Prereq., PSCI 2004. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Political Science](#) [Political Theory](#)

PSCI-4751 (3) The Politics of Ideas

Examines theoretical arguments and case studies of interactions of ideas, interests, and institutions in policymaking. Analyzes processes through which ideas come to the public agenda, how institutional settings shape those ideas, and why some ideas and interests are more successful. Prereq., PSCI 1101. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Political Science](#) [American](#)

PSCI-4771 (3) Civil Rights and Liberties in America

Implementation of rights and liberties in America. Examines fundamental issues of free speech, press, association, and religion along with rights to due process and equal protection under the law. Prereq., PSCI 2481. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Political Science](#) [American](#)

PSCI-4774 (3) Liberal Democracy and the First Amendment

Examines in depth various philosophical and legal justifications of First Amendment rights of speech, press, association, and religion.

Assesses these justifications in relation to broader normative theories of liberal democracy. Prereq., PSCI 2004. Recommended prereq., PSCI 2481. Restricted to juniors/seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Political Science Political Theory

PSCI-4783 (3) Global Issues

Studies the principal issues confronting humanity that affect stability and survivability and their economic, social, and political implications. Prereq., PSCI 2012 or 2223. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Political Science (PSCI), International Affairs (IAFS) or Environmental Studies (ENVS) majors only.

College of Arts & Sciences Political Science International Relations

PSCI-4792 (3) Issues in Latin American Politics

Studies several Latin American countries in some depth including history and contemporary politics. Teaches students to listen to and evaluate different sides of political controversies, and critically evaluate arguments. Prereqs., PSCI 2012 or IAFS 1000, and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Political Science Comparative

PSCI-4841 (1-3) Independent Study in American Politics

Subjects are chosen and arrangements are made to suit the needs of each student. Independent study is for upper-division students who have completed 9 credit hours of political science and who have an overall GPA of at least 3.00. Not more than 6 credit hours of independent study may be credited toward the minimum requirements in the political science major. A special independent study approval agreement form must be obtained from the department. May be repeated up to 7 total credit hours. Prereq., PSCI 1101.

College of Arts & Sciences Political Science American

PSCI-4842 (1-3) Independent Study in Comparative Politics

Subjects chosen and arrangements made to suit needs of each student. Independent study is for upper-division students who have completed 9 credit hours of political science and who have an overall GPA of at least 3.00. Not more than 6 credit hours of independent study may be credited toward the minimum requirements in the political science major. Special independent study approval agreement form must be obtained from the department. May be repeated up to 7 total credit hours. Prereq., PSCI 2012 or IAFS 1000.

College of Arts & Sciences Political Science Comparative

PSCI-4843 (1-3) Independent Study in International Relations

Subjects chosen and arrangements made to suit needs of each student. Independent study is for upper-division students who have completed 9 credit hours of political science and who have an overall average of at least 3.00. Not more than 6 credit hours of

independent study may be credited toward the minimum requirements in the political science major. Special independent study approval agreement form must be obtained from the department. May be repeated up to 7 total credit hours. Prereq., PSCI 2223.

College of Arts & Sciences Political Science International Relations

PSCI-4844 (1-3) Independent Study in Political Theory

Subjects and arrangements suit individual student needs. Independent study is for upper-division students who have completed 9 credit hours of political science and who have an overall GPA of at least 3.00. Not more than 6 credit hours of independent study may be credited toward the minimum requirements in the political science major. Special independent study approval agreement form must be obtained from the department. May be repeated up to 7 total credit hours. Prereq., PSCI 2004.

College of Arts & Sciences Political Science Political Theory

PSCI-4848 (1-3) Independent Study

Subjects chosen and arrangements made to suit needs of each student. Independent study is for upper-division students who have completed 9 credit hours of political science and who have an overall average of at least 3.00. Not more than 6 credit hours of independent study may be credited toward the minimum requirements in the political science major. Special independent study approval agreement form must be obtained from the department. May be repeated up to 7 total credit hours.

College of Arts & Sciences Political Science General

PSCI-4938 (3-6) Internship in Government

With instructor's assistance, students secure an internship with a political or governmental organization. In addition to the internship, the class consists of regular seminars, course readings and assignments, and individual conferences with the instructor. Student pursues an academic research project and writes an original research paper. Instructor approval required in semester preceding internship. Contact instructor prior to early registration. Prereq., PSCI 1101.

College of Arts & Sciences Political Science General

PSCI-6901 (1-3) Graduate Research Topic

Independent research in a topic of special interest. Arrangements are made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8901. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science American

PSCI-6902 (1-3) Graduate Research Topic

Guides independent research on a topic of special interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8902.

College of Arts & Sciences Political Science Comparative

PSCI-6903 (1-3) Graduate Research Topic

Independent research in a topic of special interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8903.

College of Arts & Sciences Political Science International Relations

PSCI-6904 (1-3) Graduate Research Topic

Independent research in a topic of special interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. Maybe repeated up to 7 total credit hours. Same as PSCI 8904.

College of Arts & Sciences Political Science Political Theory

PSCI-6905 (1-3) Graduate Research Topic

Independent research in a topic of special interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8905. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-6906 (1-3) Graduate Research Topic

Provides the opportunity for independent research in topic of interest. Arrangements made to suit needs of each student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 8906.

College of Arts & Sciences Political Science Public Policy

PSCI-6908 (1-3) Graduate Research Topic

Same as PSCI 8908.

College of Arts & Sciences Political Science General

PSCI-6948 (1) Master's Degree Candidate

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science General

PSCI-6951 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science American

PSCI-6952 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Comparative

PSCI-6953 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science International Relations

PSCI-6954 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Political Theory

PSCI-6955 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd



Courses

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PSCI

PSCI-6956 (1-6) Master's Thesis

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[Public Policy](#)

PSCI-7002 (3) Seminar in West European Politics

Examines West European politics in terms of general theories of comparative politics, including institutional, behavioral and political economy approaches. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[Comparative](#)

PSCI-7004 (3) Seminar: Political Theory

Allows for intensive research in and presentation of selected topics. Introduces students to the broad context within which political ideas arise. Deals with classical and modern thought. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[Political Theory](#)

PSCI-7008 (1) Teaching Political Science 1

First of two courses designed to prepare graduate teachers in the essentials of political science teaching and provide a background in theories of political science teaching and practical skills development in discipline-specific education. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[General](#)

PSCI-7011 (3) Seminar: American Politics

Core field seminar for students of American politics. Course work emphasizes the diversity of contemporary research on American political history, political institutions, and political behavior. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science American

PSCI-7012 (3) Seminar: Comparative Political Systems

Discusses current literature on comparative politics including theoretical and methodological issues. Restricted to graduate students or instructor consent. required.

College of Arts & Sciences Political Science Comparative

PSCI-7013 (3) Seminar: International Relations

Reviews salient literature on international relations, and subsequent presentation and critical discussion of analytical studies. Allows students wide latitude in substantive and methodological approaches. Emphasizes changing trends and efforts to understand the bases for cooperation and conflict. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science International Relations

PSCI-7016 (3) Introduction to the Policy Sciences

Provides an introduction to the policy sciences as a distinctive tradition within the policy field. Emphasizes the use of conceptual tools to improve analysis of complex problems. Teaches problem solving framework that students apply to an issue of their choice. Restricted to graduate students or instructor consent required. Same as ENV5 5710. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Public Policy

PSCI-7021 (3) Latinos and U.S. Politics

Examines in depth the theoretical and empirical literature assessing the political situation and activities of Latinos (Mexican Americans, Puerto Ricans, Cuban Americans, and others) in the U.S. Stresses original research. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science American

PSCI-7022 (3) Seminar in Political and Economic Development

Covers domestic political and economic development in Latin America, Africa, and Asia, as well as interactions with the global economy. Includes defining, explaining, and prescribing policies for successful development, and comparing the experiences of developing and industrialized countries. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science Comparative

PSCI-7023 (1) Foreign Policy

Examines sources of foreign policy in terms of international pressures, economic interests, bureaucratic politics, cognitive process, public opinion, elections, congress, and presidential leadership. Examines uses and limitations of economic statecraft, military intervention, and current foreign policy issues. Recommended prereq., PSCI 7013.

College of Arts & Sciences Political Science International Relations

PSCI-7024 (3) Seminar: Selected Political Theories

Familiarizes students with selected political philosophies or theories in classical or modern political thought. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science Political Theory

PSCI-7026 (3) The Problem Orientation

Teaches basic problem solving framework for policy analysis. Emphasizes applications to develop policy recommendations for issues selected by students. Includes group projects. Restricted to graduate students or instructor consent required. Same as ENVS 5720.

College of Arts & Sciences Political Science Public Policy

PSCI-7028 (1) Teaching Political Science 2

Second course designed to train graduate teachers in the essentials of political science teaching and provide a background in theories of political science teaching and practical skills development in discipline specific education. Prereqs., PSCI 7008, and graduate standing in political science or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science General

PSCI-7031 (3) Seminar: Political Attitudes and Behavior

Provides an intensive examination of topics in political attitudes and behavior such as political participation, ideology, voting, and elite behavior. Reviews methodology of behavioral research and introduces ICPSR data archive and computer-based research. Restricted to

graduate students or instructor consent required.

College of Arts & Sciences Political Science American

PSCI-7032 (3) Seminar: Latin American Politics

Stresses intensive study of the political process in Latin America with special emphasis on democratization. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science Comparative

PSCI-7036 (3) Introduction to the Policy Sciences: The Decision Process

Provides policy sciences frameworks for analyzing policy processes and designing political strategies to influence those processes in the direction of the preferred alternative. Emphasizes applications to problems selected by students for term projects. Restricted to graduate students or instructor consent required. Same as ENVS 5730. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Public Policy

PSCI-7043 (3) Seminar: Problems of International Organization

Studies selected problems concerning administration and operation of public international organizations, including the United Nations and its specialized agencies. Considers decision making, executive leadership, internal organization, personnel policies, coordination of activities, and financing. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science International Relations

PSCI-7046 (3) Seminar: Urban Public Policy

Focuses on formulation, revision, and outcomes of public policy in American urban communities. Also uses some comparative Canadian and European literature. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science Public Policy

PSCI-7051 (3) Seminar: The United States Congress

Comprehensively examines literature and selected research topics concerning the United States Congress. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science American



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PSCI

PSCI-7071 (3) Seminar: An Introduction to the Rule of Law

Provides an intensive, critical examination of theoretical and substantive literature dealing with the behavior of the primary actors in the legal system---police, lawyers, judges, and citizens. Emphasizes empirical approach and quantitative methods. Requires research papers. Restricted to graduate students or instructor consent required. Formerly PSCI 7077. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[American](#)

PSCI-7073 (3) Seminar: Global Political Economy

Introduces graduate students to concepts, theories, and data used to study the global system from a political-economic framework. Examines world systems analysis, regime change theory, and dependency theory with respect to operation of the exchange and power relationship within the contemporary world system. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[International Relations](#)

PSCI-7075 (3) Introduction to Professional Political Science

Introduces graduate students to intellectual foundations and historical development of political science; epistemologies, subfields, intellectual approaches, methodological strategies of the discipline; and ethics and norms of professional conduct. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[Empirical Thry & Research Mthd](#)

PSCI-7085 (4) Introduction to Political Science Data Analysis

Provides intensive experience with quantitative techniques commonly employed in political science research; builds on a review of multivariate regression, inferential statistics, and causal modeling. Students undertake substantive research projects, requiring lab instruction in the use of the computer in quantitative applications of political science research. Prereq., graduate standing in PSCI or instructor consent. Prerequisites: Restricted to Political Science (PSCI) graduate students only.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-7091 (3) Politics of Social Movements

Examines theoretical and empirical research on American social movements. Emphasizes the role of movements as political actors and their ability to bring about changes in public policy and national political institutions. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science American

PSCI-7095 (3) Advanced Political Data Analysis

Provides advanced training in empirical and analytic methods of political analysis. Covers general multivariate linear (regression) model as employed in political science. Also covers a variety of dynamic approaches to empirical analysis (stochastic models, time series, and simulation). Prereq., PSCI 7085. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-7108 (3) Special Topics

Various topics not normally offered in the curriculum. Topics vary each semester. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science General

PSCI-7111 (3) Seminar: American Political Institutions

Intensive examination of the structure and rules of different political institutions in the United States. Explores both the changing approaches to the study of American political institutions as well as many of the major research topics on the presidency, Congress, the judiciary, and the bureaucracy. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science American

PSCI-7112 (3) Seminar: Comparative Political Parties and Interest Groups

Critically examines topics relating to social forces, parties, and interest groups. Analyzes concepts, theories, and case studies with particular emphasis on Western political systems. Also examines party systems in comparison and the role of groups and the determinants of group politics. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science Comparative

PSCI-7114 (3) Survey of Historical and Contemporary Political Theory

Examines major texts of Western political thought from the ancients through the 21st century. Introduces students to major schools of contemporary political theory, while situating these in their larger political context. Professionalizes students through presentations and research projects. Texts vary each semester. May be repeated up to 6 total credit hours. Recommended prereq., some previous coursework in political theory or philosophy. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Political Theory

PSCI-7115 (3) Qualitative Methods

Develop proficiency in constructing research designs with qualitative methods. The goal is to understand and be able to justify research designs involving relatively small numbers of observations as good political science given the fact that such designs may limit our ability to generalize. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-7116 (3) Context-Sensitive Research Methods

Prepares students to conduct research on topics where data is not obvious or not easily available. Encompasses variations in context and setting as part of data observations. Methods include interviewing protocols, interpretive methods, cluster analyses, case study methodologies, and textual analyses. Restricted to graduate students or instructor consent required. Same as ENVS 5740.

College of Arts & Sciences Political Science Public Policy

PSCI-7121 (3) Black Leadership and Public Policy

Examines the writings of African American political leaders, public policy critics, and politicians who have influenced black politics and society since 1900. Explores the ideas and leadership of W.E.B. Dubois, E. Franklin Frazier, Martin Luther King Jr., and others. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science American

PSCI-7123 (3) Seminar: Conflict Behavior - The Politics of Violence

Surveys historical, theoretical, and empirical analyses of violent conflict behavior, including causes and consequences of riots, terrorism, revolution, international war, and intervention. Restricted to graduate students or instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science International Relations

PSCI-7124 (3) Contemporary Democratic Theory

Surveys major schools of contemporary democratic theory and introduces students to current scholarly debates about democracy and democratic politics. Professionalizes students through class presentations and research projects. Specific controversies and texts vary each semester. Recommended prereq., some previous coursework in political theory or philosophy. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Political Theory

PSCI-7132 (3) Comparative Political Economy

Explores the relationship between economics and politics in developed and developing countries. Gives students an historical overview of 20th century economic trends and covers scholarly approaches to topics such as political and economic institutions, economic ideas and interests, the political causes of growth and equality, globalization and the welfare state, and varieties of capitalism. Recommended prereq., PSCI 7012. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Comparative

PSCI-7145 (3) Basic Formal Methods in Political Science

Introduces the application and role of models in political science (domestic and international politics), in areas such as voting, committees, power, decision making, and war and peace. Models include applications of set theory, elementary probability, games, and systems analysis. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-7151 (3) American Subnational Politics and Government

Provides a comprehensive overview of the issues and literature concerning American "Subnational" politics. Considers three bodies of literature: American federalism and intergovernmental relations, state politics, and urban/local politics. Also examines a number of policy issues. Restricted to graduate students or instructor consent required.

College of Arts & Sciences Political Science American

PSCI-7171 (3) Seminar: Law and Democratic Governance

Explores cutting-edge debates in election law. Studies different perspectives on the current controversies in the field, in addition to select opportunities to engage scholars directly about their work. Develops students' understanding of the law of democracy, exposing students to some of the best scholarship, and improving students' ability to evaluate and critique legal scholarship. Recommended prereq., PSCI 7011. Same as LAWS 8205.

College of Arts & Sciences Political Science American

PSCI-7175 (3) Dissertation Seminar

Help students make progress towards (1) in the short term: focusing in on a dissertation topic, crafting a dissertation prospectus, and identifying potential funding sources; and (2) in the long term: sending papers out for review, developing a package for the job market, and understanding the academic job market and the tenure process. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-7181 (3) Immigration Law and Immigrants' Rights

Addresses four broad questions: Who is a citizen of the United States? Who else can come to this country? When and why can noncitizens be forced to leave? Who has the authority to answer these questions? These questions prompt us to examine the history of U.S. immigration, the constitutional-statutory-regulatory framework that governs immigration and citizenship law, and the federal agencies that administer it. Also addresses contemporary challenges to, and assertions of, immigrants' rights. Same as LAWS 7615. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science American

PSCI-7901 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

College of Arts & Sciences Political Science American

PSCI-7902 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Political Science Comparative

PSCI-7903 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

College of Arts & Sciences Political Science International Relations

PSCI-7905 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Political Science](#) [Empirical Thry & Research Mthd](#)

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Courses

Search by College, Department & Category

College/School

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Search by Course Number

Subject **Number**

PSCI

PSCI-7906 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#)
[Political Science](#)
[Public Policy](#)

PSCI-7908 (1-3) Independent Study

Not a free option; must be approved by the student's advisor and program chair. Does not count as seminar. Not more than 6 hours of independent study may be credited toward PhD degree in political science. Special independent study approval agreement form must be completed by student and signed by faculty advisor. May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[General](#)

PSCI-8901 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6901. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
[Political Science](#)
[American](#)

PSCI-8902 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6902.

College of Arts & Sciences Political Science Comparative

PSCI-8903 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6903.

College of Arts & Sciences Political Science International Relations

PSCI-8904 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6904.

College of Arts & Sciences Political Science Political Theory

PSCI-8905 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6905.

College of Arts & Sciences Political Science Empirical Thry & Research Mthd

PSCI-8906 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6906.

College of Arts & Sciences Political Science Public Policy

PSCI-8908 (1-3) Graduate Research Topic

Provides an opportunity for independent research in a topic of special interest. Arrangements are made to suit the needs of each particular student. Not a free option; must be approved by student's advisor and department chair. Does not count as a seminar. May be repeated up to 7 total credit hours. Same as PSCI 6908.

College of Arts & Sciences Political Science General

PSCI-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Political Science American

PSCI-8992 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Political Science Comparative

PSCI-8993 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Political Science International Relations

PSCI-8994 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

College of Arts & Sciences Political Science Political Theory

PSCI-8995 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

PSCI-8996 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject Number

PSYC

PSYC-1001 (3-4) General Psychology

Surveys major topics in psychology: perceptions, development, personality, learning and memory, and biological bases of behavior. Students may participate as subjects for several hours in ongoing research. Meets MAPS requirement for social science: general.

[College of Arts & Sciences](#) [Psychology](#) [General](#)

PSYC-2012 (3) Biological Psychology 1

Surveys biological bases of learning, motivation, emotion, sensory processes and perception, movement, comparative animal behavior, sexual and reproductive activity, instinctual behavior, neurobiology of language and thought, and neurophysiology and neuroanatomy in relation to behavior. Prereq., PSYC 1001. Approved for GT-SC2. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Psychology](#) [Biological](#)

PSYC-2022 (3) Biological Psychology 2

Continuation of PSYC 2012. Integrates knowledge and facts presented in PSYC 2012 into current topics in biopsychology. Course no longer taught after fall 2003, except through Continuing Education correspondence. Prereq., PSYC 2012.

[College of Arts & Sciences](#) [Psychology](#) [Biological](#)

PSYC-2145 (3) Introductory Cognitive Psychology

Introduces the study of cognitive processes of human beings: sensation, perception, attention, pattern recognition, memory, learning,

language, visual thought, reasoning, problem solving, and decision making. Discusses applications to education, human factors, human computer interaction, law, and other areas of psychology. Prereq., PSYC 1001.

College of Arts & Sciences Psychology Experimental

PSYC-2606 (3) Social Psychology

Covers general psychological principles underlying social behavior. Analyzes major social psychological theories, methods, and topics, including attitudes, conformity, aggression, attraction, social perception, helping behavior, and group relations. Prereq., PSYC 1001. Credit not granted for this course and PSYC 4406. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Psychology Social

PSYC-2643 (3) Child and Adolescent Psychology

Surveys major psychological processes of childhood and adolescence. Prereq., PSYC 1001.

College of Arts & Sciences Psychology Clinical

PSYC-2700 (3) Psychology of Contemporary American Women

Surveys psychological theory and research concerning contemporary American women. Deals with such issues as masculine bias in American culture, sex difference in cognitive functioning and personality, psychological conflict for women between career and home, and specific areas pertaining to women's mental health. Prereq., PSYC 1001 or WMST 2000. Same as WMST 2700. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Psychology

PSYC-3001 (4) Honors Research Methods Seminar

Focuses on research design. Each student prepares an original, detailed research proposal, which can become the honors thesis. Open only to students who have been accepted into the psychology departmental honors program. Prereq., instructor consent.

College of Arts & Sciences Psychology General

PSYC-3005 (3) Cognitive Science

Introduces cognitive science, drawing from psychology, philosophy, artificial intelligence, neuroscience, and linguistics. Studies the linguistic relativity hypothesis, consciousness, categorization, linguistic rules, the mind-body problem, nature versus nurture, conceptual

structure and metaphor, logic/problem solving and judgment. Emphasizes the nature, implications, and limitations of the computational model of mind. Prereqs., two of the following: PSYC 2145, LING 2000, CSCI 1300, and PHIL 2440. Same as LING 3005, PHIL 3310, and CSCI 3702.

College of Arts & Sciences Psychology Experimental

PSYC-3101 (4) Statistics and Research Methods in Psychology

Three hours of lecture and one two-hour lab per week. Introduces descriptive and inferential statistics and their roles in psychological research. Topics include correlation, regression, T-test, analysis of variance, and selected nonparametric statistics. Prereqs., MATH 1011 or MATH 1150, 1300, or 1081. Prerequisites: Requires pre-requisite class of MATH 1011 or MATH 1150 or MATH 1300 or MATH 1081.

College of Arts & Sciences Psychology General

PSYC-3102 (3) Behavioral Genetics

Inheritance of behavioral characteristics. Prereq., PSYC 3101.

College of Arts & Sciences Psychology Biological

PSYC-3105 (3) Experimental Methods in Psychology

Provides an introduction to the use of experimental procedures in psychology. Students learn about the logic and design of experiments, the meaning of psychological data, how to analyze and interpret data, and the role of theory in psychology. Prereqs., Psyc 1001 and 3101. Recommended prereq., Psyc 2145.

College of Arts & Sciences Psychology Experimental

PSYC-3313 (4) Psychopathology

Three hours lec. and two hours rec. per week. Analyzes major theories of personality and behavioral disorders. Restricted to junior and senior PSYC majors. Prereq. PSYC 1001 or instructor consent. Credit not granted for this course and PSYC 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Clinical

PSYC-4001 (3) Honors Seminar 2

Surveys contemporary issues, explores current controversies, and examines in detail selected topics in psychology. Open to juniors and seniors in the department's honors program. Prereq., instructor consent.

College of Arts & Sciences Psychology General

PSYC-4011 (1-6) Senior Thesis

Critically reviews some aspect of psychological literature, scholarly analysis of a major psychological issue, and/or empirical research project. See the psychology honors director for further information. May be repeated up to 6 total credit hours.

College of Arts & Sciences Psychology General

PSYC-4021 (3) Psychology and Neuroscience of Exercise

Integrative course exploring the social, cognitive, neuroscience and physiological aspects of exercise as it relates to mental health. Examines how psychological and neuroscience research have been used to study how participation in regular physical activity affects mental health and how psychological variables influence participation in, adherence to, enjoyment of, and performance in sports and exercise. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Prereqs., PSYC 2012, 2145 and 2606. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology General

PSYC-4052 (4) Behavioral Neuroscience

Intensive survey of the morphological, neurochemical, and physiological aspects of behavior. Prereqs., PSYC 2012-2022 or EBIO 1210-1220, or CHEM 1111-1131, or PHYS 1010-1020, or PHYS 2010-2020. NRSC 4052 and PSYC 4052 are the same course. Same as NRSC/PSYC 5052.

College of Arts & Sciences Psychology Biological

PSYC-4062 (3) The Neurobiology of Stress

Provides an introduction to the concept of stress and the physiological systems involved. Factors modulating stress vulnerability versus resilience, and stress interactions with other systems with health relevance will be explored. Emphasis will be placed on current research on brain mechanisms. A strong foundation and interest in biological psychology, neuroscience, and physiology is recommended. Prereqs., PSYC 2012 or NRSC 2100 or instructor consent. Prerequisites: Requires pre-requisite course of PSYC 2012 or NRSC 2100 with grade of C- or better. Restricted to students with 57-180 credits (Junior or Senior).

College of Arts & Sciences Psychology Biological

PSYC-4114 (3) Educational Psychology and Adolescent Development

Examines the principles of educational and adolescent psychology and development that play a significant role in analyzing and understanding the complex processes in middle and secondary school classrooms. Course has both theoretical and practical dimensions. Same as EDUC 4112.

PSYC-4136 (4) Judgment and Decision Making

One lab, three lectures per week. Introduces the study of judgment and decision making processes (estimation, prediction and diagnosis, choice under certainty, and risky decision making) and the methods that have been developed to improve these processes (statistical modeling, decision analysis, and expert systems). Prereqs., PSYC 1001, 2606 and 3101. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

PSYC-4142 (3) Brain Injury, Plasticity and Recovery: From Neuron to Behavior

Traumatic brain injury is prevalent in all aspects of society, with incidence rates varying according to age, gender, military affiliation and participation in certain sports. The course will delve into the full spectrum of consequences following injury, beginning with the individual neural cells in the brain through to the behaving individual. It will also cover strategies to improve functional recovery. Prereq., PSYC 2012 or NRSC 2100. Recommended prereq., PSYC/NRSC 4132. Restricted to junior/seniors or instructor consent required. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

PSYC-4145 (4) Advanced Cognitive Psychology

Advanced course in human cognitive processes. Focuses on attention pattern recognition. Memory, learning, language, visual thought, reasoning, problem solving, and decision making. Discusses major theories and ideas in terms of the research they have inspired. Emphasis varies with instructor. One lab per week; research project required. Prereqs., PSYC 1001, 2145, and 3101. Same as PSYC 5145. Prerequisites: Requires pre-requisite classes of PSYC 1001, 2145, and 3101.

PSYC-4155 (4) Cognitive Neuroscience/Neuropsychology

An introduction to cognitive neuroscience and neuropsychology. Provides a survey of the neuropsychological underpinnings for a wide range of cognitive functions: motor control, object recognition, spatial processing, attention, language, memory and emotion. One lab, three lectures per week. Prereqs., PSYC 1001, 2012 or NRSC 2100, PSYC 3101 or MATH 2510 or MATH 2520 or IPHY 2800 or APPM 1710 or APPM 2750 or CHEN 3010 or CHEN 3130 or ECON 3818. Same as NRSC 4155.

PSYC-4165 (4) Psychology of Perception

One lab, three lect. per week. Analyzes peripheral and central mechanisms involved in the transduction and interpretation of experience. Gives special attention to vision and audition; major theories in these areas are discussed in terms of research they have inspired.

Prereqs., PSYC 1001 and 3101.

[College of Arts & Sciences](#) [Psychology](#) [Experimental](#)

PSYC-4175 (4) Computational Cognitive Neuroscience

Introduction to cognitive neuroscience (how the brain gives rise to thought) using computer simulations based on the neural networks of the brain. Covers a full range of cognitive phenomena including perception and attention, learning and memory, language, and higher-level cognition based on both large-scale cortical neuroanatomy and detailed properties of cortical neural networks. One lab per week. Recommended only for students with a strong interest in the topic, as it requires a combination of computer modeling, neuroscience and cognition. Prereq., PSCY 1001, 2012, 2145, and 3101. Same as PSYC 5175. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

[College of Arts & Sciences](#) [Psychology](#) [Experimental](#)

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Courses

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PSYC

PSYC-4220 (3) Language and Mind

Studies processes of perceiving speech, interpreting it as meaningful, and expressing intentions to communicate as utterances. Emphasizes roles of the brain and of perceptual and motor systems. Writing, gestural, and animal communicative systems also are treated. Prereqs., PSYC 1001 and LING 2000. Same as LING 4220.

College of Arts & Sciences Psychology

PSYC-4303 (3) Abnormal Psychology

Examines borderline disorders as extreme variations of the normal personality. Focuses on major functional and organic disorders, theories of mental disorders, and methods of psychotherapy. Prereq., PSYC 1001. Credit not granted for this course and PSYC 3313.

College of Arts & Sciences Psychology Clinical

PSYC-4376 (4) Research Methods in Social Psychology

Designed primarily for psychology majors interested in learning about research methodology. Topics include research design, data collection and data analysis, and written research reports. Prereqs., PSYC 1001, 2606, and 3101. Prerequisites: Requires pre-requisite classes of PSYC 1001, 2606, and 3101. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Social

PSYC-4385 (3) Ethology and Comparative Psychology

Discusses behavior of representative members of each animal phylum. Emphasizes ontogeny of behavior as well as phylogeny. Prereq.,

PSYC 1001 or EBIO 1210. Same as PSYC 5385.

College of Arts & Sciences Psychology Experimental

PSYC-4443 (4) Research Methods in Clinical Psychology

Learn to evaluate research methods as they relate to etiology, assessment, and intervention of psychological disorders. Emphasizes the importance of using sound methodological strategies in both research and clinical settings. Three lectures, one lab per week. Prereqs., PSYC1001, 3101, and 3313 or 4303. Prerequisites: Requires pre-requisite classes of PSYC 1001, PSYC 3101, and either PSYC 3313 or 4303. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Clinical

PSYC-4456 (3) Psychology of Personality

Offers a psychological study of structure, organization, and development of the person as a whole. Analysis of major theories, methods, and research, including topics such as emotion, motivation, temperament, inner experience, identity and the self, personality change, and the influence of sociocultural context.

College of Arts & Sciences Psychology Social

PSYC-4511 (3) History of Psychology

Includes outline of development of psychological theories since the Greek philosophers, the story of experimental psychology and its problems, and schools of psychological thinking. Students read original sources in English and English translations.

College of Arts & Sciences Psychology General

PSYC-4521 (3) Critical Thinking in Psychology

Allows students to expand their powers as they think about psychological problems, or about how psychological knowledge and techniques can be applied to pressing political, economic, biological, quantitative, and social issues. Encourages intellectual discipline and critical thinking about concepts and ideas; enables students to participate in oral and written discussion. May not be repeated, only 3 credit hours allowed. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Psychology (PSCY)majors only.

College of Arts & Sciences Psychology General

PSYC-4541 (3) Special Topics in Psychology

Studies and analyzes special interest topics from the broad and diversified field of psychology. Particular section content is determined by instructor. May be repeated up to 9 total credit hours, provided the topics vary. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Same as PSYC 5541. Prerequisites: Restricted to students with 57-180 credits (Junior or

Senior Psychology (PSYC) majors only.

College of Arts & Sciences Psychology General

PSYC-4543 (3) Clinical Neuropsychological Disorders

Neuropsychological disorders are behavioral and cognitive expressions of underlying brain diseases or injury. The course will provide in-depth coverage from clinical perspectives of wide range of disorders caused by stroke, traumatic brain injury, degenerative diseases, and inflammatory diseases. Students will learn the various neurologic, neuroimaging and neuropsychological methods for assessing and diagnosing these disorders and will review specific illustrative cases. Recommended prereqs., PSYC 3313 or 4303. Restricted to sophomores/juniors/seniors. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Psychology Clinical

PSYC-4553 (3) Women's Mental Health: A Biopsychosocial Approach

Examines women's mental health risks as they occur over the life span, from adolescence through menopause, and helps students develop a multi-dimensional understanding of factors contributing to the higher prevalence of women's mental health disorders, including social, neurobiological, cultural, developmental, reproductive, behavioral, cognitive and emotional factors. Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only. Prereqs., PSYC 3313 or 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Clinical

PSYC-4560 (3) Language Development

Examines the development of language in childhood and into adult life, emphasizing the role of environment and biological endowment in learning to communicate with words, sentences, and narratives. Restricted to Psychology majors only. Prereqs. or coreqs., PSYC 1001 and LING 2000. Same as LING 4560 and SLHS 4560. Prerequisites: Restricted to Psychology majors only.

College of Arts & Sciences Psychology

PSYC-4606 (3) Advanced Topics in Social Psychology

In-depth study of selected topics in social psychology. Particular section content each semester is determined by the instructor. May be repeated for a maximum of 6 credit hours, provided the topics vary. Prereqs., PSYC 1001, 2606 and 3101. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Social

PSYC-4684 (3) Developmental Psychology

In-depth consideration of human developmental processes across the life span. Includes coverage of the major topics in human development, such as physical, cognitive, social, and personality development. Prereq., PSYC 1001.

College of Arts & Sciences Psychology Developmental

PSYC-4713 (3) Survey of Clinical Psychology

Covers theories and practices relating to problems of ability and maladjustment. Diagnostic procedures and treatment methods with children and adults. Prereq., PSYC 3313 or 4303. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology Clinical

PSYC-4733 (4) Psychological Testing and Assessment

Provides an overview of issues central to testing and assessment of psychological constructs, including types of evaluation instruments currently in use in the field, their applications, and design. Prerequisites: Requires pre-requisite course of PSYC 1001 & PSYC 3101 with grade of C- or better.

College of Arts & Sciences Psychology Clinical

PSYC-4740 (3) Biology of Amphibians and Reptiles

Focuses on comparative morphology, taxonomy, ecology, behavior, and geographic distribution of amphibians and reptiles. Prereqs., EBIO 1210, 1220, 1230, and 1240; or PSYC 1001, 2012. Same as PSYC 5740 and EBIO 4740.

College of Arts & Sciences Psychology

PSYC-4841 (1-6) Independent Study (Upper Division)

Pass/fail only. May be repeated up to 8 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Psychology (PSYC) majors only.

College of Arts & Sciences Psychology General

PSYC-4911 (3) Teaching of Psychology

Students receive concrete experience in teaching general psychology under supervision of a psychology faculty member. Alternative pedagogical strategies are discussed. Students must submit an application to the undergraduate advising center.

College of Arts & Sciences Psychology General

PSYC-4931 (3) Field Placement Internship

Offers valuable volunteer experience through a supervised field placement. Provides hands-on insight into the decisions and issues that confront professionals in psychology and related fields. Prereqs., completion of 15 or more hours of psychology course work. Restricted to psychology majors. Prerequisites: Restricted to Psychology majors only.

College of Arts & Sciences Psychology General

PSYC-5052 (4) Behavioral Neuroscience

PSYC 5052 and NRSC 5052 are the same course. Same as PSYC/NRSC 4052.

College of Arts & Sciences Psychology Biological

PSYC-5082 (2-3) Seminar: Biological Psychology

Special topics concerning biological bases of behavior. Prereqs., PSYC 4052 and instructor consent.

College of Arts & Sciences Psychology Biological

PSYC-5102 (2) Behavioral Genetics

Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Biological

PSYC-5112 (3) Concepts in Behavioral Genetics

Examines selected topics in greater detail than is possible in the comprehensive undergraduate course in behavioral genetics (PSYC 3102). Topics covered may include inheritance of behavioral characteristics from perspectives of pharmacogenetics, transmission genetics, biochemical genetics, and evolutionary genetics. May be repeated up to 9 total credit hours. Instructor consent required.

College of Arts & Sciences Psychology Biological

PSYC-5122 (3) Quantitative Genetics

Surveys principles of genetics of quantitative characteristics. Topics include gene frequencies, effects of mutation, migration, and selection. Also looks at correlations among relatives, heritability, inbreeding, crossbreeding, and selective breeding.

College of Arts & Sciences Psychology Biological



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject Number

PSYC

PSYC-5145 (4) Advanced Cognitive Psychology

Instructor consent required. Same as PSYC 4145. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5175 (4) Computational Cognitive Neuroscience

Instructor consent required. Same as PSYC 4175. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5200 (3) Physiological Genetics and Genomics

Introduces genetic and genomic concepts as they apply to mammalian physiology. The course covers fundamental concepts and methods in molecular genetics and genomics and their applications towards understanding the role of genetics in the normal and pathological function of physiological systems. Same as IPHY 5200.

College of Arts & Sciences Psychology

PSYC-5232 (2) Molecular Genetics and Physiology

Covers fundamental mechanisms of gene action, including genome structure and regulation of gene expression. Discusses molecular techniques used to examine human genetic diseases. Emphasizes genetic diseases with behavioral, neurologic, and physiologic abnormalities. Prereq., IPHY/PSYC 5200 or instructor consent. Same as IPHY 5232.

College of Arts & Sciences Psychology Biological

PSYC-5242 (3) Biometrical Methods in Behavioral Genetics

Studies development of structural models appropriate to behavioral genetics and the estimation procedures necessary for their application. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Biological

PSYC-5262 (3) Mammalian Neuroanatomy

Covers microscopic anatomy and function of different brain regions. Emphasizes correlation between structure and function, particularly at cellular and synaptic level. Course includes brain dissection, description of neuroanatomical and neurohistological techniques, and an introduction to the ultrastructure of neurons. Prereqs., PSYC 4052 or NRSC 4052 or MCDB 4190, and instructor consent.

College of Arts & Sciences Psychology Biological

PSYC-5385 (3) Ethology and Comparative Psychology

Prereq., instructor consent. Same as Psyc 4385.

College of Arts & Sciences Psychology Experimental

PSYC-5423 (3) Research Problems in Clinical Psychology

Examines research issues relevant to the field of clinical psychology and mental health for the purpose of developing familiarity with substantive and methodological problems facing the field. Prereq., instructor consent.

College of Arts & Sciences Psychology Clinical

PSYC-5433 (3) Adult Psychopathology

Intensively surveys major theories, research findings, and behavioral characteristics associated with deviant reaction patterns. Prereq., instructor consent.

College of Arts & Sciences Psychology Clinical

PSYC-5453 (3) Developmental Psychopathology

Prereq., instructor consent. Restricted to graduate psychology majors. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-5541 (1-6) Special Topics in Psychology

Same as PSYC 4541. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology General

PSYC-5606 (3) Proseminar: Social-Personality Psychology

Provides a thorough introduction to methods and theories in social psychology concerned with topics such as the self, social cognition, judgment and decision making, attitude formation and change, small group processes, inter-group relations, health and social psychology, and others. May be repeated up to 12 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Social

PSYC-5665 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey to topics in experimental psychology. General areas are higher-level cognition, attention, and learning and memory. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5685 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey of topics in experimental psychology. General areas are research methods in cognitive psychology, and low-level perception. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5695 (2) Proseminar: Memory

Provides beginning Ph.D. students with a basic introduction to (primarily human) memory research. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives on memory. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5740 (3) Biology of Amphibians and Reptiles

Same as PSYC 4740, EBIO 5740.

College of Arts & Sciences Psychology

PSYC-5741 (4) General Statistics

Surveys probability and statistics in psychology. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology General

PSYC-5751 (4) General Statistics

Continuation of PSYC 5741. Instructor consent required. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology General

PSYC-5761 (3) Structural Equation Modeling

Provides training in the use of structural equation modeling, a class of analytic techniques that include the estimation of unobserved, or latent, constructs and an estimation of relationships among latent constructs. Prereqs., PSYC 5741 and 5751. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology General

PSYC-5815 (2) Proseminar: Advanced Experimental Psychology

Provides an advanced and intensive survey of topics in experimental psychology. General areas are language and high-level thinking. Meets seven weeks in the term. May be repeated up to 4 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Psychology Experimental

PSYC-5825 (2) Proseminar: Executive Function

Provides beginning Ph.D. students with basic introduction to research on executive functions -- a set of general-purpose control processes regulate one's thoughts and behaviors. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives on executive function. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-5835 (2) Proseminar: Thinking

Provides beginning Ph.D. students with a basic introduction to research on complex human cognition. This is one of the six Cognitive Psychology Proseminar modules that all students in the Cognitive Psychology Ph.D. program are required to take. The seminar will include consideration of theoretical, behavioral, and cognitive neuroscience perspectives. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-6200 (3) Issues and Methods in Cognitive Science

Same as CSCI 6402, EDUC 6504, LING 6200, PHIL 6310. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology

PSYC-6603 (1) Professional Issues in Clinical Psychology

Covers a range of topics important for professional development in clinical psychology, including preparation and delivery of research presentations, preparation of grant proposals/manuscripts and practicum experience (i.e., interviewing and assessment, treatment planning, intervention and documentation). Intended to prepare students for careers as research scientists and clinicians. May be repeated up to 6 total credit hours. Instructor permission required. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-6606 (1) Professional Issues in Social Psychology

Covers a range of topics important for professional development in social psychology, including preparation and delivery of research presentations, preparation of grant proposals and manuscripts, and peer review of manuscripts. Intended to prepare students for careers as research scientists. May be repeated up to 6 total credit hours. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Social

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Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

PSYC

PSYC-6841 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing.

[College of Arts & Sciences](#) [Psychology](#) [General](#)

PSYC-6911 (1-3) Research Practicum

[College of Arts & Sciences](#) [Psychology](#) [General](#)

PSYC-6941 (1) Master's Degree Candidate

May be repeated up to 7 total credit hours.

[College of Arts & Sciences](#) [Psychology](#) [General](#)

PSYC-6951 (1-6) Master's Thesis

May be repeated up to 7 total credit hours.

[College of Arts & Sciences](#) [Psychology](#) [General](#)

PSYC-7012 (1-3) Research in Behavioral Genetics

Individual research projects. May be repeated up to 7 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Biological

PSYC-7102 (2) Seminar: Behavioral Genetics

Intensive study of selected topics in behavioral genetics. Emphasizes recent research. Attention to both human and animal studies. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Biological

PSYC-7215 (3) Seminar: Experimental Psychology

Advanced seminar dealing with different specialized topics, at the discretion of the instructor, in different years. Topics chosen are within the broad range of experimental psychology. Instructor consent required. May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-7291 (3) Multivariate Analysis

Familiarizes students with scientific concepts, matrix theory, and computer techniques of multivariate analyses for psychological research. Topics include cluster and factor analysis, multiple regression, and discriminant functions. Emphasizes research technology rather than mathematical theory. Instructor consent required.

College of Arts & Sciences Psychology General

PSYC-7315 (2) Advanced Research Seminar on Human Memory

Addresses topics in the experimental psychology of human memory. Content varies from semester to semester, depending on interests of faculty and students. a sample topic is the long-term retention of skills. Prereq., graduate standing in psychology or related disciplines.

College of Arts & Sciences Psychology Experimental

PSYC-7415 (2) Cognitive Science Research Practicum

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., CSCI 6402 or EDUC 6504 or LING 6200 or PHIL 6310 or PSYC 6200. Recommended prereq., CSCI 7762 or EDUC 6505 or LING 7762 or PHIL 7310 or PSYC 7762. Same as LING 7415, CSCI 7412, PHIL 7415, and EDUC 6506. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-7425 (2) Cognitive Science Research Practicum 2

Independent, interdisciplinary research project in cognitive science for advanced graduate students pursuing a joint PhD in an approved core discipline and cognitive science. Research projects integrate at least two areas within the cognitive sciences: psychology, computer science, linguistics, education, philosophy. Students need commitments from two mentors for their project. Prereq., LING 7415 or PSCY 7415 or CSCI 7412 or EDUC 6506. Same as LING 7425, CSCI 7422, PHIL 7425, and EDUC 6516. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Experimental

PSYC-7536 (3) Personality and Social Psychology

Selected topics in the area of social-personality psychology. Students may register for more than one section of this course within the term and/or within their graduate career. These seminars may be on one of the following topics: stereotyping and person perception, social psychology and self, social psychology of problem behavior, health and social psychology, race and ethnic identity, or groups and small group organization. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Social

PSYC-7663 (1) Intellectual Assessment Laboratory

Practice administration of common intellectual tests. Prereq., instructor consent. Coreq., PSYC 7683. Restricted to clinical psychology graduate students. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-7673 (3) Adult Psychotherapy

Discusses selected topics in the field of psychotherapy, including content consideration and pertinent research. Topics vary from semester to semester. Prereq., instructor consent.

College of Arts & Sciences Psychology Clinical

PSYC-7683 (1-3) Intellectual Assessment, with Practicum, in Clinical Psychology

Focuses on administering and interpreting objective test results commonly used in clinical psychology practice. Probable inventories used are MMPI, SCII, WISC, WAIS, plus other objective measures where relevant. Includes case study approach and direct clinical experience. May be repeated up to 8 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-7693 (3) Personality Measurement

Covers theory and practice primarily in areas of individual personality testing. Involves intensive field work and report writing. Prereq., instructor consent.

College of Arts & Sciences Psychology Clinical

PSYC-7703 (3) Seminar: Clinical Psychology

Offers selected topics in the area of clinical psychology. May be repeated up to 12 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Psychology Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-7713 (1-3) Practicum in Clinical Psychology

Provides direct clinical experience for Phd candidates in clinical psychology only. May be repeated up to 18 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Psychology Clinical

PSYC-7765 (1-2) Readings and Research in Cognitive Science

Interdisciplinary reading of innovative theories and methodologies of cognitive science. Participants share interdisciplinary perspectives through in-class and online discussion and analysis of controversial texts and of their own research in cognitive science. Required for joint PhD in cognitive science. Prereq., graduate standing. Same as CSCI 7762, EDUC 6505, and LING 7762.

College of Arts & Sciences Psychology Experimental

PSYC-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the LCS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in LCS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, SLHS 7775, and PHIL 7810.

College of Arts & Sciences Psychology Experimental

PSYC-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.

[College of Arts & Sciences](#) [Psychology](#) [General](#)

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Courses

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All

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Subject Number

REAL

REAL-3000 (3) Principles of Real Estate

Introduction to real estate as an asset with associated property rights, an industry, profession, and investment. Covers a broad spectrum of real estate principles and terms including legal concepts, regulation and land use, industry issues, valuation, financing methods and sources, and investment analysis. Excellent elective for all students and provides the foundation for other real estate courses. Prereq., BCOR 1010, 1020, 2000, 2200, and 52 hours completed. Prerequisites: Requires pre-requisite course of BCOR 2200. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Real Estate](#)

REAL-4000 (3) Real Estate Law

Building upon the legal concepts and issues introduced in REAL 3000, the course provides a deeper study of the laws and legal issues impacting and governing real property rights and interests including the acquisition, ownership, possession, use and transfer of real property. Incorporates both a lecture and case study approach fostering regular classroom discussions. Prereq., REAL 3000. Prerequisites: Requires pre-requisite course of REAL 3000. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Real Estate](#)

REAL-4100 (3) Real Estate Finance and Investment Analysis

Covers: 1) traditional and alternative financing of residential and commercial real estate; 2) pro forma cash flows and valuation of income generating properties; 3) real estate decisions of non-real estate corporations; and 4) mortgage backed securities and real estate investment trusts (REITs). Prereq., REAL 3000. Prerequisites: Requires pre-requisite course of REAL 3000. Restricted to Business majors with 52-180 units completed.

[Leeds School of Business](#) [Real Estate](#)

REAL-4810 (3) Real Estate Internship

As the capstone course for the Real Estate Certificate program, students complete approximately 150 internship hours with a real estate company over the semester (approximately 10 hours per week). The class will meet biweekly and focus on career options and opportunities in real estate. Contact the Real Estate Center for internship and registration information.

Leeds School of Business Real Estate

REAL-4820 (3) Topics: Real Estate Development

Surveys the process of real estate development with a focus on the market analysis, urban dynamics and financing. Students will understand the complexities of the development process as it creates the communities in which we live and the many roles the student can play as a real estate professional. Prereq., REAL 3000. Prerequisites: Restricted to Business majors with 52-180 units completed.

Leeds School of Business Real Estate

REAL-4825 (3) Experimental Seminar

Offered irregularly to provide opportunity for investigation of new frontiers in Real Estate. Restricted to juniors/seniors.

Leeds School of Business Real Estate

REAL-4900 (1-3) Independent Study

Intended for exceptionally well-qualified business seniors who desire to study an advanced topic. Must be in Real Estate Certificate Program. Prereq., dean and instructor consent.

Leeds School of Business Real Estate

REAL-6820 (3-6) Graduate Seminar

Experimental seminar offered irregularly to provide opportunity for investigation of new frontiers in real estate.

Leeds School of Business Real Estate

REAL-6900 (1-3) Independent Study

Students must have consent of instructor under whose direction study is taken. Departmental form required.

Leeds School of Business Real Estate



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject Number

RLST

RLST-1620 (3) Religious Dimension in Human Experience

Studies religion as individual experience and social phenomenon. Examines varieties of religious language (symbol, myth, ritual, scripture) and of religious experience (Asian, Western, archaic). Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-1850 (3) Ritual and Media

Ritual continues to play an important role in contemporary societies in both religious and secular contexts. This course examines the elements and genres of ritual activity from African rites of passage to the Beijing Olympics, paying close attention to how the media documents, appropriates and transforms aspects of ritual. Approved for arts and sciences core curriculum: Contemporary Societies.

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-2400 (3) Religion and Contemporary Society

Studies the nature of contemporary American society from various theoretical perspectives in religious studies. Gives attention to the impact of secularization and to the religious elements found in aspects of secular life (e.g., politics, literature, education, and recreation). Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-2500 (3) Religions in the United States

Explores the development of various religions within the shaping influences of American culture, including separation of church and state, the frontier experience, civil religion, and the interaction of religions of indigenous peoples, immigrants, and African Americans. Approved for GT-AH2. Approved for arts and sciences core curriculum: United States context or ideals and values.

College of Arts & Sciences Religious Studies

RLST-2600 (3) Judaism, Christianity, and Islam

Introduces literature, beliefs, practices, and institutions of Judaism, Christianity, and Islam, in historical perspective. Same as JWST 2600. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Religious Studies

RLST-2610 (3) Religions of South Asia

Introduces the literature, beliefs, practices, and institutions of Hinduism, Buddhism, Jainism, and Sikhism, in historical perspective. Approved for GT-AH2. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Religious Studies

RLST-2620 (3) Religions of East Asia

Introduces literature, beliefs, practices, and institutions of Taoism, Confucianism, Buddhism, and Shintoism in historical perspective. Approved for GT-AH3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Religious Studies

RLST-2700 (3) American Indian Religious Traditions

Introduces religions of the peoples indigenous to the Americas. Concerns include ritual, mythology, and symbolism occurring throughout these cultures in such areas as art, architecture, cosmology, shamanism, sustenance modes, trade, and history. Same as ETHN 2703. Approved for GT-AH2. Approved for arts and sciences core curriculum: ideals and values or human diversity.

College of Arts & Sciences Religious Studies

RLST-2800 (3) Women and Religion

Examines roles of women in a variety of religious traditions including Judaism, Christianity, Hinduism, Buddhism, and goddess traditions. Same as WMST 2800. Approved for GT-AH2. Approved for arts and sciences core curriculum: human diversity.

RLST-2840 (1-3) Independent Study

May be repeated up to 8 total credit hours.

RLST-3000 (3) Christian Traditions

Studies origins and development of various aspects of Christian tradition as expressed through scripture, theology, ritual, church order, ethics, and the arts. Approved for arts and sciences core curriculum: historical context.

RLST-3010 (3) Religion and the Senses

Expanding the five common senses so they are grounded on a more fundamental kinesthetic sense, that is, sense of movement, this course focuses on the study of religion and culture on all those marvelous richly and sensuously textured aspects of religious behavior: movement, experience, feeling, action, sensation, gesture, art, music, dancing, architecture, costume, food, and ritual.

RLST-3020 (3) Advanced Writing in Religious Studies

Seminar for religious studies majors that emphasizes the development of writing skills for use inside as well as outside the academy. Writing assignments are focused on one or more core topics in religious studies. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Religious Studies (RLST) majors only.

RLST-3050 (3) Religion and Literature in America

Studies religious dimensions of American culture through representative literature, beginning with the Puritans and focusing on diversity in the 19th and 20th centuries. Approved for arts and sciences core curriculum: United States context.

RLST-3100 (3) Judaism

Explores Jewish religious experience and its expression in thought, ritual, ethics, and social institutions. Same as JWST 3100. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Religious Studies

RLST-3200 (3) Hinduism

Studies literature, beliefs, practices, and institutions of Hinduism, in historical perspective.

College of Arts & Sciences Religious Studies

RLST-3300 (3) Foundations of Buddhism

Introduction to Buddhist thought and practice in the variety of its historical and cultural contexts. The course begins with an exploration of narrative, cosmology, doctrine and ritual in early Buddhism and the Theravada of South and Southeast Asia. Through case studies, we then trace diverse conceptions of the Buddhist path in Tibet and East Asia where the Mahayana spread. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Religious Studies

RLST-3400 (3) Japanese Religions

Studies the literature, beliefs, practices, and institutions of Shinto, Buddhism, and Confucianism within the development of Japanese culture.

College of Arts & Sciences Religious Studies

RLST-3600 (3) Islam

Introduces Islamic beliefs and practices through an examination of the Qur'an, Muhammad's life, ritual duties, law and theology, mysticism, and social institutions.

College of Arts & Sciences Religious Studies

RLST-3750 (3) Women in Buddhism

Explores diverse representations of the female in Buddhist literature and the social realities of actual women in Asian historical contexts. Through case studies that traverse Buddhist Asia, we delve into monastic views of the female body, philosophical analyses of the emptiness of gender, idealized images of the feminine in Buddhist tantra, and contemporary issues such as the nun's revival moment. Same as WMST 3750.

College of Arts & Sciences Religious Studies

RLST-3800 (3) Chinese Religions

Studies classical Confucianism, Taoism, Buddhism, and Neo-Confucianism within the historical context of Chinese culture.

College of Arts & Sciences Religious Studies

RLST-3820 (3) Topics in Religious Studies

Intensive study of a selected area or problem in religious studies. May be repeated up to 9 total credit hours as topics change.

Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Religious Studies

RLST-3838 (3) Dancing, Religion, and Culture

A critical examination of the received cultural, religious, and academic understandings of dancing and the body; the construction of a richer theory of dancing that will more adequately support comparative studies; the study of dancing in cultures and religions in a diverse representation of cultures; and a more in depth social study of Latin American dancing including actual dancing experience.

College of Arts & Sciences Religious Studies

RLST-4030 (3) Religions in America

Studies various religious movements in the U.S. and other parts of the Americas. Includes American religion and religions, religion and nationalism, revitalization and religion, and Asian religions in America. May be repeated up to 9 total credit hours within a term as topics change. Prereq., 6 hours RLST or instructor consent. Same as RLST 5030.

College of Arts & Sciences Religious Studies

RLST-4050 (3) Topics in Christian Studies

Studies a particular topic in Christian theology and culture such as early Christianity, medieval Christianity, Christianity in the United States, women and Christianity, liberation theologies, Christianity and literature, and modern Christian thought. Maybe repeated up to 9 total credit hours as topics change. Prereqs., 6 hours of RLST courses at any level or instructor consent. Same as RLST 5050.

College of Arts & Sciences Religious Studies



Courses

Search by College, Department & Category

College/School

All

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Subject **Number**

RLST

RLST-4200 (3) Topics in Hinduism

Examines in depth central themes, schools of thought, and movements in Hinduism, such as myth and ritual, renunciation, Vedanta, and 19th century Renaissance. May be repeated up to 9 total credit hours as topics change. Prereqs., 6 hours of RLST courses at any level or instructor consent. Same as RLST 5200. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-4250 (3) Topics in Buddhism

Examines in depth central themes, schools of thought, and movements in Buddhism, such as Theravada in Southeast Asia, Mahayana and Tantrayana thought, Zen, and Buddhism in America. May be repeated up to 9 total credit hours as topics change. Prereqs., 6 hours of RLST courses at any level including RLST 3300 or instructor consent. Same as RLST 5250. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-4260 (3) Topics in Judaism

Examines in depth central themes, schools of thought, and movements in Judaism across a range of historical periods. May be repeated up to 9 total credit hours as topics change. Recommended prereqs., 6 hours of RLST courses at any level including RLST/JWST 3100, RLST/JWST 2600, HIST/JWST 1108 or HEBR/JWST 2350 or instructor consent. RLST 4260, JWST 4260, and 5260 are the same course.

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-4300 (3) Topics in Native American Religions

Examines a topic (varies at different offerings) focusing on religions of peoples indigenous to the Americas. May consider mythology; shamanism and medicine; trickster, clown, and fool; and crisis cult movements. May be repeated up to 9 total credit hours as topics change. Prereqs., RLST 2700 and 3 additional credit hours of RLST course work or instructor consent. Same as RLST 5300.

College of Arts & Sciences Religious Studies

RLST-4450 (3) Religion and Nonviolence

Studies theories of nonviolence developed by major thinkers and movements, especially in the U.S., in the context of their religious commitments and beliefs and their historical circumstances.

College of Arts & Sciences Religious Studies

RLST-4650 (3) Islam in the Modern World

Globally surveys Islam, covering religion and politics; Islam and the West; the Islamic revival and its varied forms in Iran, Indonesia, Libya, and Pakistan; development and change; the status of women; and media and academic stereotyping. Prereq., 6 credit hours of religious studies at any level or instructor consent. Same as RLST 5650.

College of Arts & Sciences Religious Studies

RLST-4750 (3) Daoism

Detailed examination of the history and current state of Daoism, China's indigenous organized religion. Focusing on its origins and development, ethnical teachings, ritual activities, and world view. Topics created include the relationship of Daoism to popular religion, the practice of alchemy and self cultivation, beliefs concerning death and the afterlife, and the structure of the Daoist pantheon. Prereq., RLST 3800 or instructor consent. Same as RLST 5750 and CHIN 4750.

College of Arts & Sciences Religious Studies

RLST-4800 (3) Critical Studies in Religion

Focuses on a current issue or area of research in the study of religion. Students analyze the way theories develop and learn to develop their own critical analysis. Topics vary, e.g., comparative kingship, colonialism, ritual theories, feminist analysis. May be repeated up to 6 total credit hours. Restricted to RLST majors. Prerequisites: Restricted to Religious Studies Majors only.

College of Arts & Sciences Religious Studies

RLST-4810 (3) Honors Thesis

Students write an honors thesis based on independent research under the direction of a faculty member. Required for students who elect departmental honors.

College of Arts & Sciences Religious Studies

RLST-4820 (3) Interdisciplinary Seminar on Religion: Topics

Variable topics in religion, drawing from a variety of disciplines and methodologies as they shed light on specific traditions and issues. May be repeated up to 9 total credit hours as topics change. Prereq., 6 credit hours of religious studies at any level or instructor consent. Same as RLST 5820. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Religious Studies

RLST-4830 (3) Senior Majors Seminar

Topics and instructors vary. Brings advanced majors together in order to focus their major experience on significant topics and issues of common interest. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior).

College of Arts & Sciences Religious Studies

RLST-4840 (1-6) Senior Independent Study

May be repeated up to 8 total credit hours.

College of Arts & Sciences Religious Studies

RLST-5030 (3) Religions in America

Same as RLST 4030 Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Religious Studies

RLST-5050 (3) Topics in Christian Studies

Same as RLST 4050.

College of Arts & Sciences Religious Studies

RLST-5200 (3) Topics in Hinduism

Same as RLST 4200.

College of Arts & Sciences Religious Studies

RLST-5210 (3) Advanced Readings in Sanskrit

This is an advanced Sanskrit reading course, requiring at least two years of prior Sanskrit training. Students will read texts in the original. Class time is devoted to parsing out difficult grammatical structures, discussing the philosophical import of the readings and addressing the historical contexts that assist in interpreting the texts. The topic varies according to student interest. Prereq., SNSK 2120 or 2 years of Sanskrit training.

College of Arts & Sciences Religious Studies

RLST-5250 (3) Topics in Buddhism

Same as RLST 4250. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Religious Studies

RLST-5260 (3) Topics in Judaism

Examines in depth central themes, schools of thought, and movements in Judaism across a range of historical periods. May be repeated up to 9 total credit hours as topics change. Recommended prereqs., 6 hours of RLST courses at any level including RLST/JWST 3100, RLST/JWST 2600, HIST/JWST 1108 or HEBR/JWST 2350 or instructor consent. RLST 4260, JWST 4260, and 5260 are the same course. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Religious Studies

RLST-5300 (3) Topics in Native American Religions

Same as RLST 4300.

College of Arts & Sciences Religious Studies

RLST-5350 (3) Native American Religions: Regional Studies

Same as RLST 4350.

College of Arts & Sciences Religious Studies

RLST-5650 (3) Islam in the Modern World

Same as RLST 4650.

College of Arts & Sciences Religious Studies

RLST-5750 (3) Daoism

Restricted to graduate students. Same as RLST 4750 and CHIN 5750.

College of Arts & Sciences Religious Studies

RLST-5820 (3) Interdisciplinary Seminar on Religion

Same as RLST 4820. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Religious Studies

RLST-5840 (1-6) Independent Study

May be repeated up to 8 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Religious Studies

RLST-6830 (3) Introduction to the Academic Study of Religion

Introduction to the graduate academic study of religion through the exploration of contemporary models and issues that demonstrate the nature and future of the field. Each student will prepare a profile of his/her intended area of research. Restricted to Religious Studies graduate students. Prerequisites: Restricted to Religious Studies graduate students only.

College of Arts & Sciences Religious Studies

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RLST

RLST-6840 (1-6) Independent Study

May be repeated up to 8 total credit hours. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-6940 (1) Master's Degree Candidate

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-6945 (1-4) Directed Readings: Non-Thesis Option

Course work finished or in the last semester. May be repeated up to 4 total credit hours.

[College of Arts & Sciences](#) [Religious Studies](#)

RLST-6950 (1-4) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Religious Studies](#)



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RSEI

RSEI-4150 (3) Energy Policy Project

Provides students with an opportunity to apply their knowledge of energy technologies, systems, and policies to energy policy issues. Specific topical coverage varies by semester. Example topics include natural gas fracking, automotive fuel economy standards, and natural gas exports. Students work in teams to research, prepare, and present a detailed and specific energy project proposal. Prereq., ENVS 3621. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5000 (3) Energy Science and Technology

Examines the basics of energy science and technology. Covers both conventional energy sources such as oil, natural gas, coal, nuclear and hydroelectric; and renewable/sustainable energy technologies including wind, solar, biomass, geothermal, and end-use efficiency. Investigates the technological promise and progress of each technology, as well as its limitations and challenges. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5001 (3) Renewable Energy Policy

Examines the technology, policy and politics of renewables. Technology includes the resource, science, and engineering aspects of renewables. Policy includes various policy levers used to influence renewables. Politics refers to political settings of renewables: how decision-makers perceive them, who supports/opposes policies, and how policies progress through the political process. Prereq., an introductory energy science and technology course. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5002 (3) The Business of Renewable Energy

Addresses the business of renewable energy, including opportunities and challenges with renewable electricity, renewable transportation fuels, and energy efficiency. Topics include energy markets, opportunity identification, life cycle analysis, economic analysis, policy impacts, and project financing of sustainable renewable energy business models. Prereqs., RSEI 5000 and 5001. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5100 (1) Renewable and Sustainable Energy Seminar

Examines a wide range of energy issues in seminar format. Students attend energy-related seminars and critique/evaluate the presented material. Open to graduate students from all disciplines. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)

RSEI-5200 (3) Energy Topics Course

Covers timely topics related to renewable and sustainable energy. Specific offerings vary by semester. Prerequisites: Restricted to Graduate Students only.

[Cross College Programs](#) | [Renewable and Sustainable Energy Institute](#)



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Subject **Number**

RUSS

[RUSS-1010 \(4\) Beginning Russian 1](#)

For students with no previous training in Russian. Credit not granted for this course and RUSS 1050.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian](#)

[RUSS-1020 \(4\) Beginning Russian 2](#)

Continuation of RUSS 1010. Prereq., RUSS 1010 (min grade of C-). Credit not granted for this course and RUSS 1050.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian](#)

[RUSS-1050 \(5\) Intensive Beginning Russian](#)

Covers same material as RUSS 1010 and RUSS 1020 combined in one course. Focuses on acquiring basic grammar (all cases for nouns, adjectives and possessives, verb conjugations, in all three tenses), and ability to understand and speak basic everyday Russian. Develops basic reading and writing skills and provides exposure to the fundamentals of the Russian culture. Credit not granted for this course and RUSS 1010 or 1020.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian](#)

[RUSS-1900 \(1-6\) Independent Study](#)

May be repeated up to 6 total credit hours.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-2010 (4) Second-Year Russian 1

Review and continuation of basic skills learned in the first year: reading, writing, speaking, and oral comprehension. Prereq., RUSS 1020 or 1050 (min grade C-). Approved for GT-AH4. Meets MAPS requirement for foreign language. Satisfies arts and sciences language requirement.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-2020 (4) Second-Year Russian 2

Continuation of RUSS 2010. Prereq., RUSS 2010 (min grade of C-).

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-2211 (3) Introduction to Russian Culture

Provides a chronological overview of civilization in the area now known as Russia, from its beginnings to the end of the Romanov dynasty, paying particular attention to the geographic, social, artistic, economic, and political forces that have combined to give the Russian people and their culture their unique characteristics. Taught in English. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-2221 (3) Introduction to Modern Russian Culture

Introduces students to major trends in Russian culture from the 1890's to the present, through the study of literature, art, architecture, music, journalism and film in an historical context. Addresses such questions as: how have past events affected Russian society? How can we use knowledge about Russia's past to understand social and cultural forces today? Taught in English. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-2231 (3) Fairy Tales of Russia

Provides a general introduction to fairy tales including various theoretical approaches to classifying and interpreting them; introduces students to a wide selection of Russian folk and fairy tales. Examines the cultural, social and political values they reflect, as well as the continuing influence of fairy tales and folk beliefs in Russian literature, music, folk art, and film, as well as in the political propaganda of the 20th century. Taught in English. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts.

RUSS-2241 (3) The Vampire From Eastern European Folklore to Modern Popular Culture

Introduces students to the folkloric and historic origins of the vampire of contemporary culture. Students will read extensively from both Russian and Western literary works, analyzing the image of the vampire as represented in folk narrative, popular fiction, and film. Students learn and apply critical approaches to understanding the vampire metaphorically, symbolically, and as a demonized "other". Taught in English.

RUSS-2471 (3) Women in Russian Culture: From Folklore to the Nineteenth Century

Explores the changing role and cultural images of women as reflected in Russian folklore, medieval documents, and literature (fiction and non-fiction) of the 10th-19th centuries. Focuses on the construction of gender in traditional (patriarchal) Russian culture and on the strategies of women's resistance to the political, social and cultural implications of gender stereotypes. Although the course includes works of Russian women and men alike, it intends to revise the canon of Russian culture by reading them through the prism of the gender issues of their times. Taught in English. Approved for GT-AH2. Approved for arts and sciences core curriculum: historical context.

RUSS-2501 (3) Russia Today

Introduces students to post-communist Russia, its values and ideologies. It is equally wrong to interpret post-Soviet society through the prism of the Cold War as through the models of contemporary post-industrial capitalism. Neither totalitarian nor liberal, contemporary Russia raises numerous questions about such ideological and cultural constructions as neo-liberalism and capitalism, nationalism, globalization, state power, and popular vs. high cultures. Taught in English. Approved for arts and sciences core curriculum: contemporary societies.

RUSS-3000 (3) Advanced Conversation

Enables students to speak and understand contemporary Russian. Discussion topics and source materials vary. May be repeated up to 6 total credit hours. Prereq., RUSS 2010.

RUSS-3010 (3) Third-Year Russian 1

Review of Russian grammar coordinated with reading, speaking, writing, and understanding modern Russian. Uses some texts from modern Russian literature. Prereq., RUSS 2020.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-3020 (3) Third-Year Russian 2

Continuation of RUSS 3010. Prereq., RUSS 3010.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-3050 (3) Business Russian

Studies general commercial practices, vocabulary, and terminology applied in various business transactions. Emphasizes oral and written communication and correspondence. Prereq., RUSS 2020 or instructor consent.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-3060 (3) Advanced Russian for Heritage Speakers (Part 1)

Enhances heritage student competence and performance in Russian language. The course offers intensive review of Russian grammar and focuses on developing advanced reading, writing and translation skills. Readings are selected from a wide range of contemporary writings that reflect current issues in Russia. Credit not granted for this course and RUSS 4010.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-3211 (3) History of Russian Cinema

Surveys Russian cinema in historical and cultural context from early 20th century to the present. Taught in English. Prereq., RUSS 2221 or FILM 1502. Same as FILM 3211. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-3231 (3) Laughter in Slavic Cultures

Examines forms, genres and social functions of laughter in Slavic cultures (Russian, Polish, Czech, Serbian, and others). Analysis of the carnivalesque, grotesque, and irony in the works of Gogol, Chapek, Hashek, Lem, Kundera, Gombrowicz, Kharmis, Zoshchenko, Ilf and

Petrov, Kusturica, Kieslewsky, and other authors; also provides an introduction to literature and film of Eastern Europe. Taught in English.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-3301 (3) Contemporary Issues in Russian Film

Examines the relationship between politics, economics, aesthetics, and the way moral and social issues are treated in noteworthy Russian films of the last 20 years. Taught in English. Same as FILM 3301.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-3601 (3) Russian Culture Past and Present

Russian culture from the ninth century to the present. Focuses on interdisciplinary exploration of literature, folklore, art, architecture, and music through study in St. Petersburg. Offered abroad only. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-3701 (3) Slavic Folk Culture: Ideals and Values in the Contemporary World

Explores contemporary Slavic and American folk practices and investigates the possible origins and consequences of such practices. Focuses upon the value systems these practices represent, and ways that core values help to define identities and cultures. Topics include folk religion, magic, healing, life cycle and calendar rituals and folk music. Taught in English. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-3930 (1-6) Russian Internship

Provides an academically supervised opportunity for upper-division students to earn credit while working for public or private organizations. Students apply skills and knowledge earned in the major, and supplement their work experience through directed readings and assignments. May be repeated up to 6 total credit hours. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Russian (RUSS) majors only.

RUSS-4010 (3) Advanced Conversation and Composition 1

Prereq., RUSS 3020. Credit not granted for this course and RUSS 3060.



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RUSS

[RUSS-4020 \(3\) Advanced Conversation and Composition 2](#)

Prereq., RUSS 4010. Credit not granted for this course and RUSS 4060.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian](#)

[RUSS-4060 \(3\) Advanced Russian for Heritage Speakers \(Part 2\)](#)

Enhances heritage student competence and performance in Russian language. The course offers intensive review of Russian grammar and focuses on developing advanced reading, writing and translation skills. Readings are selected from a wide range of contemporary writings that reflect current issues in Russia. Recommended prereq., RUSS 3060, 4010 or equivalent. Credit not granted for this course and RUSS 4020.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian](#)

[RUSS-4210 \(1-3\) Topics in Russian Culture](#)

Selected topics in Russian literature, film, art, and music. May be repeated up to 9 total credit hours when topic varies. Taught in English.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Russian Courses Taught in Engl](#)

[RUSS-4221 \(3\) Cultural Mythologies of Russian Communism](#)

Investigates how cultural and ideological myths such as those of the great leader, utopian future, new man, hero, "enemies of the people", and some others were produced in Soviet Russia from the 1920's to the 1950's; what general mechanisms of cultural production

in the age of modernity do they reveal. Taught in English. Recommended prereqs., RUSS 4821, 2221, 2211. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4230 (3) Russian Cultural Idioms

Focuses on the critical analysis of the Russian cultural discourse through Russian idioms. Taught in Russian. Prereq., RUSS 2020 or instructor consent. Same as GSLL 5230.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian

RUSS-4301 (3) American-Russian Cultural Relations

Surveys the development of American-Russian cultural relations from the second half of the 18th century to the present. Examines the character and significance of Russian-American relations in social, intellectual, artistic, and other spheres from a comparative perspective. Taught in English. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: historical context or U.S. context. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4421 (3) Gogol

Explores major fictional and dramatic texts of the great Russian writer Nikolai Vasil'evich Gogol (1809-52) -- "The strangest prose-poet Russia ever produced" (Nabokov). Works will be analyzed in the context of Western and Russian Romanticism. Relevant nonfiction texts will also be introduced when appropriate. Class will be run largely as group discussion, with necessary historical and critical background provided. Taught in English. Same as GSLL 5421.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4431 (3) Dostoevsky

Focuses on close reading of major novels and other works by Dostoevsky, one of the most important psychological novelists in modern literature, a profound religious thinker, and the greatest crime novelist in the world. Taught in English. Same as GSLL 5431.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4441 (3) Tolstoy

Examines the development of Tolstoy's thought and literary style through study of the novel War and Peace and short works from different periods of Tolstoy's writing. Taught in English. Recommended prereq., some experience with college-level expository writing.

Same as GSLL 5441.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4451 (3) Chekhov

Analyzes the life and creative works of the author of some of the funniest and some of the gloomiest stories in Russian literature. Examines Chekhov's major plays that laid the foundation for modernist theatre. Taught in English. Same as GSLL 5451.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4471 (3) Women in 20th Century Russian Culture

Acquaints students with major issues concerning women in 20th century Russian culture. Examines sources from folk culture, popular culture, and high culture (poetry, prose, songs, tales, visual art, and cinema) that mythologize or question women's images and societal roles. All texts and films are offered in English translation. Taught in English. Recommended prereq., course(s) in literature or film studies, and upper-division writing courses. Same as WMST 4471 and GSLL 5471. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4811 (3) 19th Century Russian Literature

Surveys background of Russian literature from 1800 to 1900. Russian writers and literary problems in the 19th century emphasizing major authors: Pushkin, Lermontov, Gogol, Dostoevsky, Turgenev, Tolstoy, and Chekhov. Taught in English. Same as HUMN 4811. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4821 (3) 20th Century Russian Literature and Art

Interdisciplinary course emphasizing the influence of art in 20th century Russian literature. Follows the changing cultural landscape from the time when Russia was in the vanguard of modern European literature to the gradual cultural relaxation that culminated in Perestroika and Glasnost. Taught in English. Same as HUMN 4821. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4831 (3) Contemporary Russian Literature

Acquaints students with the most representative works of Russian writers from the 1960s to the present in a broad historical and political

perspective. Examines the relationships between ideological concepts and aesthetics, and the treatment of moral and social issues in recent literary works. All readings are provided in translation. Taught in English. Recommended prereq., lower level literature course. Approved for arts and sciences core curriculum: literature and the arts or contemporary societies.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4841 (3) History of Modern Russian Drama

Examines Russian plays of the 20th and 21st centuries (from Chekhov to contemporary authors) in the context of the Western theatre theory. Through the analysis of plays and their theatrical/filmic productions, students will familiarize themselves with main genres of modern drama and most influential directorial styles from Stanislavsky's "method" to contemporary verbatim theatre. All readings are in English. Prereq., RUSS 2221 or instructor consent. Same as GSSL 5841.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4851 (3) Critical Thinking: Russian Film and Society

Through structured discussions, selected readings, and written assignments, examines topics in Russian film from socio-historical and cultural studies perspectives. Identification and critical analysis of concepts and assumptions underlying differing cinematic approaches to controversial topics. Taught in English. Prereqs., RUSS 2221 or RUSS/FILM 3301 or equivalent. Same as GSSL 5851.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4861 (3) Absurd and Supernatural in Russian Literature

Studies themes of grotesque, bizarre, surreal, absurd, supernatural, and fantastic in Russian short stories and novels of the 19th and 20th centuries. Discusses works by Pushkin, Gogol, Dostoevsky, Kharms, Bulgakov, Siniavskii, Petrushevskiaia, and Pelevin, within contexts of Russian folklore, Freud and Jung's interpretations of jokes and dreams, and Romanticism. Taught in English. Recommended prereq., one upper division humanities course. Same as GSSL 5861.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian Courses Taught in Engl

RUSS-4900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Germanic & Slavic Languages & Literature Russian



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SCAN

SCAN-1202 (3) Tolkien's Nordic Sources and the Lord of the Rings

Examines the Nordic aspect of J.R.R. Tolkien's work, especially The Lord of the Rings. The course concentrates on the Nordic saga tradition, mythology, folklore and fairy tales Tolkien used as his sources. Students will explore the transformations of these sources from prehistoric times to contemporary cinematic adaptations, while paying special attention to cultural appropriations, national revisions, and political alterations. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Nordic Study Course English](#)

SCAN-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
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SCAN-2201 (3) Introduction to Modern Nordic Culture and Society

Provides a comprehensive introduction to modern Nordic culture and society. Surveys the history of Nordic countries and examines their culture using art, architecture, literature, and film. Studies social issues, environmental concerns, and political patterns. In profiling aspects of culture and society unique to Nordic countries, students arrive at a conception of a collective Nordic identity. Taught in English. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#)
[Germanic & Slavic Languages & Literature](#)
[Nordic Study Course English](#)

SCAN-2202 (3) The Vikings

Examines the social, cultural, technological, and artistic backgrounds of the Viking experience, charting the history of the period both within the Nordic region and Europe as well as North America. Additionally, looks at some of the lasting influences of the Vikings on Western civilization. Taught in English. Approved for arts and sciences core curriculum: historical context.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-2900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-3020 (3) Advanced Readings in Scandinavian

Develops the type of advanced reading knowledge of the four closely related Scandinavian languages (Swedish, Danish, and the two Norwegian standards) that will prepare students for their senior thesis, and for possible graduate work. Readings will help students see relationships and connections operating across national and linguistic borders within the Nordic region. Prereqs., NORW/SWED 2120 and NORW/SWED 3900 for 3 credits.

College of Arts & Sciences Germanic & Slavic Languages & Literature Norwegian

SCAN-3201 (3) Contemporary Nordic Society and Culture

Explores contemporary Nordic culture and society with special focus on Iceland. Emphasis is on the relationship between historical, geographic, artistic, and political forces in Iceland and their effects on culture and society. Provides insight into the life and attitudes of contemporary Icelanders and stresses their place in the global culture of today. Taught in English. Recommended prereq., SCAN 2201. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-3202 (3) Old Norse Mythology

Surveys the mythology and heathen cult practices of the Old Norse world. Students learn to read mythological texts and study the major gods (Odin, Thor, Frey and Freyja, among others), along with other mythological beings. The course examines and evaluates evidence for beliefs and cult practices in texts, art, archeological finds, and other sources. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-3203 (3) 19th & 20th Century Nordic Literature

Examines the Nordic region's influence on social realism, expressionism, and postwar literature, including such themes as women in society, nature and industrialization, and identity and angst. May include works by Ibsen, Strindberg, Dinesen, and Nobel Prize winners Lagerlof, Hamsun, Undset, and Lagerkvist. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-3204 (3) Medieval Icelandic Sagas

Advanced introduction to medieval Icelandic saga with readings in the family, outlaw, skald, and legendary sagas as well as the main scholarly approaches to this unique literature. Topics include honor, blood feud, fate, sexuality/gender, oral composition, and legend. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-3205 (3) Scandinavian Folk Narrative

Introduces the rich tradition of Scandinavian oral narrative. Looks at relationships between the various genres of oral narrative and their historical, social, and cultural contexts. Genres studied may include ballad, fairy tale, rural legend, and urban legend. Explores various interpretive methodologies. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-3206 (3) Nordic Colonialisms

Examines Nordic colonial enterprise and the relationship between the Scandinavian center and colonial peripheries from the Arctic to the Caribbean, Africa, and India. Studies colonial and postcolonial cultures, and postcolonial criticism and theory. Taught in English. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-3208 (3) Women in Nordic Society: Modern States of Welfare

Examines the role and status of women and marginalized social classes in the Nordic countries, whose societies have been heralded as egalitarian models since the twentieth century. Texts include a variety of media, from literature to sociological works to artifacts of political and popular culture. Taught in English. Same as WMST 3208. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Germanic & Slavic Languages & Literature Nordic Study Course English

SCAN-3209 (3) Contemporary Nordic Literature and Film

Advanced introduction to contemporary Nordic literature and film. Readings/screenings of recent translated Nordic texts and films, presenting a broad spectrum of contemporary issues, along with current critique and theoretical approaches. Topics: history, culture, translation, gender/sexuality, nationalidentity, minority issues, etc. Taught in English.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Nordic Study Course English](#)

SCAN-3506 (3) Scandinavian Drama

Examines the many contributions of Scandinavian dramatists to world theater from the 18th century to the present. With emphasis on Holberg, Bjornson, Ibsen, Strindberg, and Bjorneboe, surveys Enlightenment comedy, national romanticism, realism, naturalism, symbolism, expressionism, and Brechtian epic theater. Taught in English. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Nordic Study Course English](#)

SCAN-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Nordic Study Course English](#)



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SEWL

SEWL-1020 (1-3) Topics-Social Sciences 1

[College of Arts & Sciences](#) [Sewall Residential Academic Program](#)

SEWL-2000 (3) America, the Environment, and the Global Economy

Examines the debate over globalization and the global environmental crisis. Does increasing global economic development threaten to undermine the environment? What role should America play in the development of a sustainable economy? Credit not granted for this course and SOCY 1002. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Sewall Residential Academic Program](#)

SEWL-2020 (1) Civic Engagement

Explores the concept of citizenship and develops students' leadership skills through discussions and service-learning. Working with Sewall faculty mentors, students discuss citizenship and related topics and learn concretely about aspects of the larger community by choosing a local community organization, becoming actively involved in its programs, and presenting their work at a culminating symposium. May be repeated up to 4 total credit hours.

[College of Arts & Sciences](#) [Sewall Residential Academic Program](#)



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

SLHS

SLHS-1010 (3) Disabilities in Contemporary American Society

Addresses the issue that 50 percent of all individuals experience disability in their lifetime. Introduces students to the social, cultural, psychological, economic, political, legal, and health-care issues related to society and individuals with disabilities. Approved for arts and sciences core curriculum: contemporary societies or ideals and values.

[College of Arts & Sciences](#) [Speech, Language, & Hearing Sciences](#) [Didactic: All-Department](#)

SLHS-2000 (3) Introduction to Communication Disorders

Surveys communication disorders, including hearing impairments, learning disabilities, and speech-language disorders, as well as an introduction to basic speech and hearing science.

[College of Arts & Sciences](#) [Speech, Language, & Hearing Sciences](#) [Didactic: All-Department](#)

SLHS-2010 (3) Science of Human Communication

Discusses how human communication (the process by which a thought is transmitted from the brain of a speaker to the brain of a listener) involves a complex interaction of acoustics, anatomy, physiology, neurobiology, and psychology. Approved for arts and sciences core curriculum: natural science.

[College of Arts & Sciences](#) [Speech, Language, & Hearing Sciences](#) [Didactic: All-Department](#)

SLHS-2305 (4) American Sign Language 1

Introduces basic sign vocabulary, grammatical structures of ASL, and the culture of deaf people. Classes are taught using ASL without the use of spoken English.

College of Arts & Sciences Speech, Language, & Hearing Sciences American Sign Language

SLHS-2315 (4) American Sign Language 2

Develops more complex vocabulary and grammatical structures, and an understanding of deaf culture. Classes are taught using ASL without the use of spoken English. Prereq., SLHS 2305 or equivalent.

College of Arts & Sciences Speech, Language, & Hearing Sciences American Sign Language

SLHS-2325 (4) American Sign Language 3

Continuation of SLHS 2315. Covers ASL literature, advanced grammatical structures, idiomatic expressions, and deaf culture. Prereq., SLHS 2315 or equivalent. Meets MAPS and core requirement for a foreign language.

College of Arts & Sciences Speech, Language, & Hearing Sciences American Sign Language

SLHS-3006 (3) Phonetics

Focuses on production of speech sounds, transcribing speech using the International Phonetic Alphabet, analyzing the acoustic properties of speech sounds, understanding how speech sounds vary depending on the context. Provides a foundation for understanding normal and atypical speech development, atypical speech problems and patterns, regional and foreign accents, and speech recognition by computers. Prereq., LING 2000.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Speech-Hearing Sci

SLHS-3106 (3) Hearing Science

Focuses on the three main aspects of the hearing process: Sounds in the environment (physical acoustics), sounds encoded within the auditory system (physiological acoustics), and perception of sound (psychological acoustics). Prereq., SLHS 2010.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Speech-Hearing Sci

SLHS-3116 (3) Speech Science

Provides a basic understanding of the structural organization (anatomy), function (physiology), and neural controls of the structures used to produce speech, swallowing, respiration, and related behaviors in humans. Prereq., SLHS 2010. Prereq. or Coreq., SLHS 3106.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci

SLHS-4000 (3) Multicultural Aspects of Communication Differences and Disorders

Examines perceptions and attitudes regarding differences in communication as a function of cultural-linguistic diversity. Discusses implications of differing verbal and nonverbal communication styles of various cultural groups in terms of professional responsibilities. Prereq., upper-division standing and a minimum of 60 credit hours. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-4100 (1-3) Special Topics in Speech, Language, and Hearing Sciences

Studies selected topics in speech, language, hearing sciences, communication disorders, and other professional issues.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-4502 (3) Language Disorders: Child and Adult

Language disorders can result from problems with cognitive, linguistic, and/or discourse processing. The theoretical framework of language dysfunction is addressed while drawing upon real clinical examples of language disorders that have been observed in children and adults. Coreq., SLHS 4560.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-4512 (3) Speech Disorders: Voice, Cleft Palate, Motor Disorders, Stuttering

Emphasizes stuttering, clefting, voice disorders, and motor disorders. Discusses research, evaluation, and treatment pertaining to each of these four disorder areas. Prereq., SLHS 2010.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-4560 (3) Language Development

Covers the development of language in childhood and into adult life, emphasizing the role of environment and biological endowment in learning to communicate with words, sentences, and narratives. Restricted to Speech, Language, and Hearing Sciences majors only. Same as LING 4560, PSYC 4560. Prerequisites: Restricted to Speech, Language, and Hearing Sciences majors only.

College of Arts & Sciences	Speech, Language, & Hearing Sciences	Didactic: All-Department
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SLHS-4704 (3) Audiological Evaluation

Studies basic principles and techniques of hearing evaluation, including pure-tone, speech, immittance, and advanced audiometry; hearing conservation in hospital, school, and industrial settings; and identification and evaluation of auditory pathologies. Required projects in screening and pure-tone audiometry. Prereq., SLHS 3106. Prerequisites: Restricted to Speech, Language, and Hearing Sciences majors only.

College of Arts & Sciences	Speech, Language, & Hearing Sciences	Didactic: Audiology
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SLHS-4714 (3) Audiological Rehabilitation

Covers basic principles and techniques related to the habilitation and rehabilitation of individuals who are deaf or hard of hearing: amplification, speech, language, auditory, speech reading, and educational issues. Prereq. or coreq., SLHS 4704, and LING 3100 or SLHS 3006.

College of Arts & Sciences	Speech, Language, & Hearing Sciences	Didactic: Audiology
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SLHS-4849 (1-4) Independent Study for Undergraduates

May be repeated up to 7 total credit hours. Prereq., departmental consent.

College of Arts & Sciences	Speech, Language, & Hearing Sciences	Independent Study
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SLHS-4918 (2) Introduction to Clinical Practice

Introduces students to the clinical processes and key components of assessment and interventions. Explores the applications of the theoretical and scientific information to clinical settings. Students complete supervised observation of individuals with communication challenges. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Speech, Language and Hearing Sciences (SLHS) majors only.

College of Arts & Sciences	Speech, Language, & Hearing Sciences	Practica
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SLHS-4938 (1-6) Internship: Speech-Language Intervention

Provides a supervised clinical experience with children who have communication challenges enrolled in the Child Learning Center programs; individuals demonstrating communication disorders as a cotherapist in the Speech, Language, and Hearing Center; or off-campus experience in an affiliated hospital or public school program. May be repeated up to 6 total credit hours.

College of Arts & Sciences	Speech, Language, & Hearing Sciences	Practica
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SLHS-5000 (2) SLHS Research Methods 1

Familiarizes students with basic methodologies and research designs employed in the field. Focuses on critical reading of research papers and design of experiments. At least one research project is conducted and written as part of the course requirements. May be repeated up to 4 total credit hours.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-5006 (2) Applied Speech Science

Provides an advanced understanding of the acoustics, aerodynamics, and biomechanics of speech production and related non-speech behaviors. Emphasizes the integration of theoretical constructs in the speech sciences with applied clinical and basic research. Prereq., SLHS 3136 or equivalent. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci

SLHS-5032 (3) Competencies and Strategies for the SLPA

Includes roles and responsibilities for the Speech Language Pathology Assistant (SLPA) working in the public schools, service delivery models, health and safety, screening assistive technology, intervention and self reflection and evaluation. Prereq., SLHS 4918. Must be accepted in the SLPA certification program.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5110 (2) Clinical Theory and Practice

Reviews models and theoretical perspectives regarding communication disorders with application to the clinical processes of assessment, intervention, counseling, and efficacy of intervention. Focuses on issues, challenges, and skills related to working with consumers of speech-language pathology and audiology services and their families, cultural competence, legal and ethical practices, teaming, and collaborative service delivery. Prereq., graduate standing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-5120 (3) Foreign Language Learning in Students with Language Learning Disabilities

Introduces a foundational knowledge of language based learning and processing problems that impact foreign language learning in students with disabilities. Must be accepted into the MFL certificate program.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-5130 (3) Curricular Accommodation Programs for Students with Foreign Language Learning Disabilities

Provides knowledge about the legal bases for student accommodations for MFL learning disabilities, the administrative procedures and policies surrounding accommodations, assessment, advising and related implementation issues. Must be accepted into the MFL certificate program.

[College of Arts & Sciences](#) [Speech, Language, & Hearing Sciences](#) [Didactic: All-Department](#)

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Courses

Search by College, Department & Category

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All

Search by Course Number

Subject **Number**

SLHS

SLHS-5140 (3) Accommodated Foreign Lang Instructional Interventions for Students with Lang Learning Disabilities

Provides knowledge of the principles and skills used to develop modified foreign language instruction for students with language based learning disabilities. Must be accepted into the MFL certificate program.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-5242 (3) Language Disorders in School Age Children

Addresses the nature, assessment, and treatment of developmental language disorders in school age children. Prereqs., graduate standing and undergraduate background in SLHS. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Speech-Lang Pathology

SLHS-5252 (3) Acquired Language Disorders in Adults

Introduces the neural bases and medical etiologies of acquired language disorders in adults, explores the ways in which normal language processing may become disordered, and studies current methods of evaluation and treatment design. Prereqs., graduate standing and undergraduate SLHS background. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Speech-Lang Pathology

SLHS-5262 (3) Dysphagia

Provides students with background in the anatomical, physiological, and neurological bases of swallowing function and disorders across

the lifespan. Etiological factors are presented, as well as various assessment tools and principles of treatment of swallowing disorders in children and adults. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5272 (3) Augmentative Alternative Communication: Theory and Use

Provides an overview of the application of current technology to alternative/augmentative communication. Emphasizes assessment and intervention with nonverbal children and adults with need for alternative/augmentative communication systems. Presents various technological devices and systems. Addresses system selection, programming, development, and integration of use in environmental contexts. Prereq., SLHS 5232 and instructor consent. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5282 (3) Acquired Cognitive Disorders

Explores the theoretical and clinical management of acquired cognitive disorders that impact communication. Includes basic functional neuroanatomy. Prereq., graduate standing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5292 (3) Motor Speech Disorders

Presents the neural bases of normal and disordered speech motor control, teaches assessment and treatment of motor speech disorders of children and adults, and applies motor control research to clinical problems. Prereqs., graduate standing and undergraduate SLHS background. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5302 (3) Phonological Disorders

Provides overview of phonological development, perception, and production. Presents factors related to articulation and focuses on critical evaluation of traditional and phonological based assessment and intervention procedures. Includes coverage of phonological awareness, metaphonological skills as related to literacy. Prereq., graduate standing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5332 (3) Cleft Palate and Voice Disorders

Examines the anatomical and physiological bases for normal and disordered velopharyngeal and laryngeal function. Familiarizes students with evaluation and treatment of the speech of individuals with cleft lip and palate and laryngeal-based voice disorders. Prerequisites:

Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5362 (3) Stuttering: Therapy and Research

Emphasizes evaluation and treatment of children and adults who stutter. Discusses and evaluates various stuttering intervention approaches. Also discusses counseling parents of young children who stutter. Familiarity with research is a secondary emphasis. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5576 (3) Communication Neuroscience

Provides an introduction to the neuroanatomy and neurophysiology of speech production and perception. Considers how speech and language are represented in, and controlled by, the central nervous system. Emphasizes the mechanisms underlying the communication process and discusses relevant neuropathologies. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci

SLHS-5602 (3) Seminar: Intervention for Children with Communication Challenges: Birth to Six

Provides an orientation to family-directed intervention in serving young children with disabilities and their families. Facilitates integration of medical, physiological, and theoretical perspectives with specific approaches to assessment and intervention. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5612 (3) Learning Disabilities

Focuses on the nature, assessment, and treatment of learning disabilities and their relation to language disorders. Prereqs., SLHS 5242 or 5293.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5674 (3) Signals and Systems in Audiology

Provides in-depth study of instrumentation used by audiologists for hearing aid evaluation and fitting, signal generation and modification, and signal measurement and calibration. Prereq., SLHS graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology

SLHS-5848 (1-4) Independent Study

May be repeated up to 7 total credit hours.

College of Arts & Sciences Speech, Language, & Hearing Sciences Practica

SLHS-5849 (1-4) Independent Study 1, M.A.

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Independent Study

SLHS-5859 (1-4) Independent Study 2, M.A.

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Independent Study

SLHS-5878 (1-3) Practicum 1: Speech-Language-Learning Appraisal

Provides a supervised clinical experience on campus in appraisal of speech, language, and learning disorders after training at the observational level. Prereq., SLHS graduate standing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Practica

SLHS-5898 (1-4) Practicum 1: Speech-Language-Learning Intervention

Offers on-campus and off-campus supervised clinical practice in management of speech-language-hearing disorders in children and adults. May be repeated up to 6 total credit hours. Prereq., SLHS graduate standing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Practica

SLHS-5918 (1-3) Audiology Clinical Practicum: Level 1

Provides clinical training in the on site Speech, Language and Hearing Center in skills including audiology identification, evaluation and management for adults and children with hearing loss. May be repeated up to 16 total credit hours. Prereq., SLHS 6544. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Practica

SLHS-5930 (4) Speech Language Pathology Assistant Internship

Placement for a minimum of 12 hours per week for a total of 180 hours including 100 direct student contact hours under the supervision of a fully credentialed SLP, to fully develop requisite skills as an SLPA and become employed in a public school setting. Prereq., SLHS 4918. Must be accepted into the SLPA certificate program.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic:Speech-Lang Pathology

SLHS-5938 (1-3) Audiology Clinical Practicum: Level 2

Provides clinical training in an off campus Audiology facility in identification, evaluation and management for adults and children with hearing loss. Schedule is variable with a minimum requirement of 16 hours on rotation per week. May be repeated up to 15 total credit hours. Prereqs., SLHS 5918, 6544, 6614, and instructor approval. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Practica

SLHS-6000 (1-4) Problems in Speech, Language and Hearing Sciences

Studies selected topics related to the theory and management of communication disorders, and theoretical/scientific information related to speech, language, and hearing. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: All-Department

SLHS-6006 (3) Advanced Hearing Science

Provides advanced study in hearing science, including physical, physiological, and psychological acoustics of both normal and impaired auditory systems. Prereq., graduate standing in SLHS; undergraduate course work in biology or anatomy.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Speech-Hearing Sci

SLHS-6504 (1) Professional Ethics in Audiology

Overview of ethics and ethical issues in the profession of audiology. Topics to be discussed include code of ethics by professions, approaches to analyzing ethical dilemmas, ethics in relationships with manufacturers, and ethical considerations in teaching, clinical practice and research. Prereq., good standing in SLHS graduate program or instructor consent. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Speech, Language, & Hearing Sciences | Didactic: Audiology



Courses

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Subject **Number**

SLHS

SLHS-6514 (1) Professional Issues in Audiology

Overview of professional issues related to the profession of audiology. Topics to be discussed include certification, licensure, professional associations, infection control, practice management, federal regulations related to audiology, professional communications and professional relationships. Prereq., good standing in SLHS graduate program or instructor consent. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-6544 (3) Auditory Processes: Adult Assessment

Advanced study on the current science surrounding hearing assessment of adults across the age span. Includes theoretical foundations and clinical applications. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-6554 (3) Auditory Processes: Child Assessment

Provides advanced study in hearing assessment and management of children across the age span. Topics include epidemiological, medical, audiological, developmental, and rehabilitative aspects of normal and impaired hearing in children. Prereqs., graduate standing and undergraduate audiology course work. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-6564 (3) Auditory Processes: Neurodiagnostics

Provides advanced study in the neural bases of hearing. Includes theoretical foundations and clinical assessment of neurological functioning in auditory systems with both normal and impaired function. Prereq., SLHS 6544. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-6614 (3) Fundamentals of Amplification

Discusses theoretical and clinical issues regarding the design, fitting, and evaluation of amplification technology for individuals with hearing loss. Includes the use of behavioral, psychological, electroacoustic, and physiological (real ear) measures in the selection and evaluation of digital and analog hearing aid technology. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-6640 (3) Communication Processes and Hearing Loss: School Age through Adult

Theories and processes of the communication of individuals with hearing loss from the school age to adult population. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-6650 (2) Counseling and Professional Ethics

Explores counseling theories and techniques following the diagnosis of a disability across the life span. Considers issues related to grieving and mourning, parenting, disability, cultural customs, attachment, and relationships. Covers professional ethics and ethical responsibilities. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-6660 (1) Multicultural Issues in SLHS and Communication Theory

Provides an in-depth understanding and first-hand knowledge of different racial, ethnic and religious communities, which is necessary to develop and refine multicultural clinical competence. Incorporates scholarly readings and experiential learning in multicultural settings and fosters participants' qualitative research skills. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-6670 (3) Adult Aural Rehabilitation

Provides an investigation of the impact of hearing loss on adults. Psycho-social aspects, communication challenges, assessment and intervention for adult hearing disorders including presbycusis, tinnitus, vestibular disorders, auditory central processing disorders and

sudden hearing loss. Prereq., SLHS 6544. Recommended prereqs., SLHS 7814 and 7540. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-6918 (7) Practicum 2: Speech-Language-Learning Internship

Gives an off-campus experience in a clinical or hospital setting that provides in-depth practice in management of communication disorders of children and adults. May be repeated up to 10 total credit hours. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Practica

SLHS-6928 (1-7) Practicum 2: Public School Internship

Provides an off-campus supervised experience providing extended and in-depth practice involving school-age children in a school classroom. May be repeated up to 10 total credit hours. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Practica

SLHS-6938 (1-10) Audiology Clinical Externship

Provides students with full time off campus experience in an Audiology facility offering in-depth and advanced procedures for identification, evaluation and management of hearing loss in adults and children. May be repeated up to 21 total credit hours. Prereq., consent of department advisor. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Practica

SLHS-6940 (1) Candidate for Degree

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-6950 (1-7) Master's Thesis

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-7000 (3) Research Designs in Human Communication Sciences and Disorders

Offers an advanced seminar in research designs for human behavior: efficacy, ethnographic, single-subject, quasi-experimental, and experimental designs. Designed to familiarize students with terminologies and research designs frequently used in speech-language-hearing areas. Prereq., basic statistics.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-7100 (3) Cognitive Bases of Human Communication and Its Disorders

Explores major cognitive theories related to language, including connectionism, information processing, and cognitive mechanisms of early lexical learning. Discusses data from children and adults. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-7200 (3) Business, Management and Ethics in Audiology

Focuses on the business aspects of managing an audiology practice. Addresses developing a business plan, contracting for services, legal issues, financial reporting, budgeting, pricing, billing and reimbursement, regulatory issues, marketing, personnel management, risk abatement, and business ethics. Prereq., good standing in the SLHS graduate program or instructor consent. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-7450 (3) Audiology Capstone Project

Provides an individualized project for AUD, completed prior to initiation of final clinical year. May be in the form of research-based investigation, an evidence-based position paper, a clinical protocol based on peer-reviewed literature, a grant proposal, or another format approved by AUD committee. Project requires approved proposal by AUD committee and focused study supervised by capstone advisor. Restricted to students enrolled in the AUD graduate program. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: All-Department

SLHS-7520 (3) Auditory Processes: Medical and Genetic Bases

Discusses current developments in epidemiology, pathogenesis, and symptomatology of hearing loss. Investigates the genetic bases of hearing loss and deafness. Incorporates clinical decision theory in assessment and intervention. Explores cross-disciplinary topics from genetics, radiology, pharmacology, pathology, and otology. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-7530 (3) Auditory Processes: Theory and Application in the School Environment

Focuses on application of routine audiological practices such as screening, assessment, rehabilitation, and instrumentation to children in educational settings. Emphasizes federal education regulations and pertinent case law. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-7540 (3) Auditory Processes: Physiology, Assessment, and Management of the Vestibular System

Emphasizes current research on physiology of the vestibular system, including both structure and function. Considers the etiology of both peripheral and central pathologies of the vestibular system. Discusses ways to assess function of the vestibular system as well as theoretical and practical considerations of vestibular rehabilitation. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-7550 (2) Mgmt and Prev of Noise and Noise Induced Hearing Loss

Discusses effects of noise and other damaging agents on the physiology of the auditory system. Highlights principles of hearing conservation programs. Focuses on prevention, identification, and management of occupational hearing loss and current legislation as it pertains to occupational safety and hazards. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-7554 (1) Audiometric Instrumentation and Calibration

Introduces students to the basic concepts of electroacoustic transduction, and demonstrates the application of these concepts to the measurement and calibration of audiometric instrumentation. Students will become familiar with standard measurement equipment including multimeters, oscilloscopes, and sound level meters; and will become familiar with calibration standards for instruments including the audiometer, tympanometer, and electrophysiological amplifiers. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-7614 (3) Implantable Devices: Technology and Clinical Application

Examines technological aspects and clinical applications of implantable prostheses such as cochlear implants, brainstem implants, hybrid cochlear implants, Baha devices and middle ear implants. Topics will include: history of implantable devices, anatomy and histopathology of the inner ear, speech processing in implants, mapping devices, candidacy criteria, behavioral and electrophysiologic techniques for assessment and outcomes in implanted children and adults. Prereq., good standing in SLHS graduate program or instructor consent. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences Speech, Language, & Hearing Sciences Didactic: Audiology

SLHS-7640 (3) Communication Processes and Hearing Loss: Birth through Six

Provides in-depth study of current research literature and its implications for clinical practice regarding development of communication processes in the first six years of life and impact of hearing loss. Investigates development of language, auditory perception, speech production, social-emotional abilities, and cognition. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

[College of Arts & Sciences](#) [Speech, Language, & Hearing Sciences](#) [Didactic: Audiology](#)

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SLHS

SLHS-7714 (3) Advanced Topics in Amplification

Discusses advanced issues in the design and fitting of hearing aid technology, including advanced signal processing, outcomes assessment, evidence-based practice and specialized fitting protocols for pediatric and geriatric populations. Current research is integrated with clinical case studies to guide the development of evidence-based practice in hearing aid fittings. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Speech, Language, & Hearing Sciences](#) [Didactic: Audiology](#)

SLHS-7775 (1-2) Topics in Cognitive Science

Reading of interdisciplinary innovative theories and methodologies of cognitive science. Students participate in the ICS Distinguished Speakers series that hosts internationally recognized cognitive scientists who share and discuss their current research. Session discussions include analysis of leading edge and controversial new approaches in cognitive science. Restricted to students enrolled in ICS Cognitive Science Academic Programs. Same as LING 7775, CSCI 7772, EDUC 7775, PSYC 7775, and PHIL 7810. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Speech, Language, & Hearing Sciences](#) [Didactic: All-Department](#)

SLHS-7849 (1-4) Independent Study 1, PhD

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

[College of Arts & Sciences](#) [Speech, Language, & Hearing Sciences](#) [Independent Study](#)

SLHS-7859 (1-4) Independent Study 2, PhD

May be repeated up to 7 total credit hours. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | [Speech, Language, & Hearing Sciences](#) | [Independent Study](#)

SLHS-7918 (3) Practicum 3: Clinical Supervision

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | [Speech, Language, & Hearing Sciences](#) | [Practica](#)

SLHS-8206 (3) Perception/Production Theories in Human Communication Sciences and Disorders

Provides an advanced seminar in perception/production theories in human communication sciences and disorders. Familiarizes students with current perception theories related to the auditory/visual system and production theories related to the motor/auditory/visual system. Prereq., doctoral student standing or instructor consent.

College of Arts & Sciences | [Speech, Language, & Hearing Sciences](#) | [Didactic: Speech-Hearing Sci](#)

SLHS-8918 (3) Practicum 3: Classroom Instruction

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | [Speech, Language, & Hearing Sciences](#) | [Practica](#)

SLHS-8928 (3) Practicum 3: Research Coordination

Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | [Speech, Language, & Hearing Sciences](#) | [Practica](#)

SLHS-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Speech, Language and Hearing Sciences (SLHS) or Audiology (AUDD) graduate students only.

College of Arts & Sciences | [Speech, Language, & Hearing Sciences](#) | [Didactic: All-Department](#)



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SNSK

SNSK-1010 (3-4) Introductory Sanskrit 1

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

SNSK-1020 (3-4) Introductory Sanskrit 2

Prereq., SNSK 1010.

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

SNSK-2110 (3-4) Intermediate Sanskrit 1

Continued study of the grammar of classical Sanskrit and translation of selected readings from the literature. Meets MAPS requirement for foreign language. Prereq., SNSK 1020.

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)

SNSK-2120 (3-4) Intermediate Sanskrit 2

Continuation of SNSK 2120. Prereq., SNSK 2110.

[College of Arts & Sciences](#) [Religious Studies](#) [Sanskrit](#)



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SOCY

SOCY-1001 (3) Introduction to Sociology

Examines basic sociological ideas including social relations, social interaction, social structure, and social change. Examples are drawn from societies around the world. Meets MAPS requirement for social science: general. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

[College of Arts & Sciences](#) [Sociology](#) [General Sociology](#)

SOCY-1004 (3) Deviance in U.S. Society

Examines the social construction of deviance in the U.S., the process of acquiring a deviant identity and managing deviant stigma, and the social organization of deviant act, lifestyles, relationships and careers. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

[College of Arts & Sciences](#) [Sociology](#) [Deviance and Criminology](#)

SOCY-1006 (3) The Social Construction of Sexuality

Discusses the social determinants of sexuality. Analyzes the economic, psychological, and cultural influences on human sexuality. Interactional perspective of human sexuality is presented. Same as WMST 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Sociology](#) [Sex and Gender](#)

SOCY-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as WMST 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-1021 (3) United States Race and Ethnic Relations

An examination of race and minority problems in U.S. society, including the psychological, social, and cultural sources of prejudice and discrimination. Approved for GT-SS3. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences | Sociology | General Sociology

SOCY-1022 (3) Ethics and Social Issues in U.S. Health and Medicine

Explores current ethical and policy issues in U.S. health and medical practices. Includes such issues as alcohol and drug abuse, organ transplants and substitutes, genetic engineering, contraception, abortion, occupational safety and health, and euthanasia. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-1841 (1-6) Independent Study in Sociology

May be repeated up to 7 total credit hours.

College of Arts & Sciences | Sociology | General Sociology

SOCY-2011 (3) Contemporary Social Issues and Human Values

Explores contemporary societies on a global scale. Focuses on such issues as capitalism, socialism, race and ethnic problems, sex discrimination, poverty and the concentration of wealth, crime and deviance, human rights and human values, peace and war.

College of Arts & Sciences | Sociology | General Sociology

SOCY-2021 (3) Nonviolence and the Ethics of Social Action

Examines nonviolence as a strategy of social action. Focuses on ethics and dynamics of nonviolent action; racial and economic justice movements; civil disobedience; and conscientious objection to war.

College of Arts & Sciences | Sociology | General Sociology

College of Arts & Sciences | Sociology | General Sociology

SOCY-2031 (3) Social Problems

Examines U.S. society from a normative perspective emphasizing theories of social change. Considers such problems as distribution of power, unemployment, poverty, racism and sexism, the changing role of the family, and drugs. Approved for GT-SS3. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Sociology | General Sociology

SOCY-2034 (3) Drugs in United States Society

Examines the relationship between drugs and social contexts. Lends insight into why people find consciousness alteration meaningful, what kinds of experiences and problems arise, and what types of social policies emerge to control drug use.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-2044 (3) Crime and Society

Explores issues related to crime, the criminal justice system, and crime-related public policy. It addresses what we know about crime and how we know it, how our society responds to crime, and how the institutions designed to address crime (police, courts, corrections) function.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-2061 (3) Introduction to Social Statistics

Introduces students to quantitative analysis of social phenomena. Emphasizes understanding and proper interpretation of graphs; measures of central tendency, dispersion, and association; and the concept of statistical significance. Assumes students have only limited mathematical background.

College of Arts & Sciences | Sociology | General Sociology

SOCY-2077 (3) Environment and Society

Examines how both natural and built environments influence human behavior and social organization. Focuses on microenvironments and their influence on individuals; the impact of macroenvironments on societal organization; and environmental movements. Credit not granted for this course and SOCY 3091. Approved for arts and sciences core curriculum: ideals and values.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-2091 (3) Topics in Sociology

Variety of courses taught by visiting and regular faculty. See current departmental announcements for specific content. Students may receive credit for this course up to three times for different topics.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3001 (3) Classical Theory

In-depth study of classical sociological theorists, particularly Marx, Durkheim, and Weber. Examines their roles in defining the discipline of sociology. Prereq., SOCY 1001. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3002 (3) Population and Society

Examines population, its structure and processes, and its relationships to selected areas of the social structure. Examines Malthusian, neo-Malthusian, and Marxist perspectives. Restricted to SOCY majors. Prerequisites: Restricted to Sociology majors only.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-3010 (3) Sociology Capstone Course: Professional Writing

Builds on previous coursework in survey or field methods to result in an original, article-length research paper analyzing sociological data. Students will hone their writing skills through in- and -out-of-class writing exercises, and read and analyze models of quantitative and qualitative sociological articles to develop sociological writing skills. Prereq., SOCY 3301 or SOCY 3401. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3011 (3) Contemporary Theory

Continuation of SOCY 3001. In-depth study of modern and post-modern theories of the 20th century, including structural-functionalist, conflict, symbolic interactionist, feminist, and world system theories. Prereqs., SOCY 1001 and 3001. Restricted to junior/senior SOCY majors.

College of Arts & Sciences | Sociology | General Sociology

SOCY-3012 (3) Women and Development

Investigates the status of women in the context of globalization and social and economic development. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 3012. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Sociology Population and Health Issue

SOCY-3016 (3) Marriage and the Family in U.S. Society

Comparative and historical examination of marriage and the family within the U.S. Emphasizes changing family roles and family structures. Also considers alternatives to the nuclear family and traditional marriage exploring new definitions of family. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 3016. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Sociology Sex and Gender

SOCY-3034 (3) Perspectives on Violence

What counts as violence? Who decides what is violence and what is not? In what contexts does violence occur? This course critically examines different criminological and social science perspectives on violence. Prereq., SOCY 1001 or 1004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences students only.

College of Arts & Sciences Sociology Deviance and Criminology

SOCY-3041 (3) Self and Consciousness

Explores human development from a psychosocial perspective, focusing on the interplay between psychological patterns and social forms. Issues such as self-image and social consciousness are studied within the larger context of individual and collective forces leading to transformation. Prereqs., SOCY 1001, and 3001 or 3011, or instructor consent. Same as INVS 3041. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-3042 (3) Topics in Population and Health

A variety of courses in population and/or health will be taught, usually by visiting lecturers. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001.

College of Arts & Sciences Sociology Population and Health Issue

SOCY-3044 (3) Race, Class, Gender, and Crime

Overview of race, class, gender, and ethnicity issues in offending, victimization, and processing by the justice system. Examines women and people of color employed in the justice system. Prereq., SOCY 1001 or 1004. Same as WMST 3044. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

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SOCY

SOCY-3046 (3) Topics in Sex and Gender

Faculty present courses based on their area of expertise and specialization in the field of sex and gender. Students should check current sociology department notices of course offerings for specific topics. Students may receive credit for this course up to three times for different topics. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/ senior SOCY majors. Same as WMST 3046.

[College of Arts & Sciences](#)
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SOCY-3141 (3) Social Movements in the U.S

Considers theory and research about American social movements. Emphasizes leadership, ideology, recruitment, strategy, organizational dynamics, public response, and reasons for success or failure. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

[College of Arts & Sciences](#)
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SOCY-3151 (3) Self in Modern Society

Explores how modern social institutions and culture shape our personal experiences, how personal experiences can affect the nature of those, institutions and culture, and how strategies can be developed for achieving balance between the individual and society. Prereqs., SOCY 1001 and SOCY 3001 3011. Approved for arts and sciences core curriculum: United States context or ideals and values. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

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SOCY-3161 (3) Sociological Perspectives on Race and Ethnicity

catastrophe, the course examines cataclysmic world events and the traumatic consequences for women of religious persecution, colonialism, slavery, and the genocides of the twentieth and twenty first centuries. Prereq., SOCY 1016 or WMST 2000 or SOCY 3314. SOCY 4000 and WMST 4010 are the same course.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-4002 (3) Sociology of Aging

Studies present and future roles of the aged in the family, the community, and the larger society. Considers economic, political, and health consequences of various retirement systems. Prereqs., Socy 1001, and Socy 3001 or 3011. Restricted to junior/senior Socy majors.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-4004 (3) Advanced Topics in Criminology

Variety of courses in criminology. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001 or 1004. Restricted to junior/senior SOCY majors.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-4007 (3) Global Human Ecology

Examines global environmental issues from sociological perspectives. Focuses on such problems as overpopulation, world hunger and poverty, pollution, resource shortages, environmental impact of technology and population dynamics, public policy, and strategies for change. Credit not granted for this course and SOCY 1002 or SEWL 2000. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-4014 (3) Criminology

Scientific study of criminal behavior with special attention to development of criminal law, definition of crime, causes of law violation, and methods of controlling criminal behavior. Prereq., SOCY 1001 or 1004.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-4016 (3) Sex, Gender, and Society 2

Studies status and power differences between the sexes at individual, group, and societal levels. Examines empirically established sex differences, and reviews biological, psychological, and sociological explanations for gender differences. Prereqs., SOCY 1016 or WMST

2000. Restricted to junior/senior SOCY majors. Same as WMST 4016.

College of Arts & Sciences Sociology Sex and Gender

SOCY-4017 (3) Animals and Society

Examines the role of non-human animals in human society. Investigates the social construction of the human/animal boundary. Challenges ideas that animals are neither thinking nor feeling. Examines the many ways humans rely on animals. Considers the link between animal cruelty and other violence. Explores the moral status of animals. Prereq., SOCY 1001.

College of Arts & Sciences Sociology Environment and Society

SOCY-4021 (3) Conflict Management in Social Systems

Explores conflict resolution theory and method as applied to interpersonal, intergroup, and interorganization conflict. Prereqs., SOCY 1001, and SOCY 3001 or 3011.

College of Arts & Sciences Sociology General Sociology

SOCY-4024 (3) Juvenile Delinquency

Examines the history, incidence and prevalence of delinquent behavior, as well as why children become involved in criminal activity. Prereq., SOCY 1001 or 1004. Approved for arts and sciences core curriculum: contemporary societies. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology Deviance and Criminology

SOCY-4027 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between (a) inequality and democratic decision making and (b) undemocratic decision making; U.S. and corporate food and energy policy; and global environmental degradation. The course also focuses on the role that global inequality plays in fostering environmental degradation. Restricted to juniors/seniors. Same as ENVS 4027. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Sociology Environment and Society

SOCY-4031 (3) Social Psychology

Studies individuals in social context. Reviews philosophical and sociological treatments of the relation between the individual and society. More specific topics include the socialization process, theories of human development and personality formation, language acquisition, conformity, aggression, sex differences in personality and gender identity, and the relation between attitudes and overt behavior. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Prerequisites: Restricted to students with 57-

Addresses three subtopics of race from a sociological perspective: ethnic and racial identities, immigration, and race and ethnicity in Latin America. Recommended prereq., SOCY 1001.

College of Arts & Sciences Sociology General Sociology

SOCY-3171 (3) Whiteness Studies

Uses the conceptual framework of the sociology of race and ethnic relations to explore whiteness as a racial category that is centered and privileged in American society. Investigates the development of whiteness from past white supremacy, current colorblindness, to possible future multiculturalism. Analyzes the consequences of whiteness as a racial identity and a social structure. Prereqs., SOCY 1001 and 1021.

College of Arts & Sciences Sociology General Sociology

SOCY-3301 (3) Survey Methods

Teaches quantitative research methods and, particularly, methods of survey research. Topics include sampling, interviewing, schedule construction, data analysis, computer methods, index construction, and statistical analysis. Students participate in a survey project, design, collect data, and prepare a research paper on the basis of collected data. Prereqs., SOCY 1001, 2061, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-3314 (3) Violence Against Women and Girls

Focuses on aspects of the victimization of women and girls that are "Gendered" - namely, sexual abuse and intimate partner abuse. Also explores the importance of race, class, and sexuality in gendered violence. Same as WMST 3314.

College of Arts & Sciences Sociology Deviance and Criminology

SOCY-3401 (3) Field Methods

Skill development prepares students to conduct qualitative sociological research. Emphasizes ethnographic techniques, including intensive interviewing, direct observation, coding, participant observation, and report writing. Students conceive and execute a field research project with data collection, analysis, and a report. Prereqs., SOCY 1001 and SOCY 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4000 (3) Gender, Genocide, and Mass Trauma

Studies the persistence of genocide and the effects of mass trauma on women and girls. Within the framework of political and social

180 credits (Juniors or Seniors).

College of Arts & Sciences Sociology General Sociology

SOCY-4037 (3) Hazards, Disasters and Society

Explores the societal dimensions of hazards and disasters, emphasizing disaster theory and research, key issues in the sociological study of disasters, social vulnerability, the impacts of disasters in the U.S. and worldwide, and the U.S. Emergency Management System. Prereq., SOCY 2077. Same as SOCY 5037.

College of Arts & Sciences Sociology Environment and Society

SOCY-4042 (3) Economic Sociology

Defines relationship between economy and society; sociological approach to study of economic activity and organization; difference from the theoretical and methodological assumptions orienting the discipline of economics; tackles these questions in two ways: studies foundations as established in works of Smith, Marx, Weber, Polanyi, and Schumpeter, and considers current research in economic sociology, focusing on concepts of markets, networks, and embeddedness. Prereq., SOCY 1001. Restricted to sophomore, junior, senior SOCY majors.

College of Arts & Sciences Sociology Population and Health Issue

SOCY-4047 (3) Topics in Environment and Society

Variety of courses taught by visiting and regular faculty. See current departmental announcements for specific content. May be repeated up to 9 credit hours for different topics.

College of Arts & Sciences Sociology Environment and Society

SOCY-4052 (3) Social Inequalities in Health

Focuses on social inequalities in health in both U.S. and international contexts. Reviews the link between health status and various types of social statuses, including but not limited to socioeconomic status, gender, race, and ethnicity. Explanations for the relationships between these factors and various health outcomes are discussed. The class focuses on multiple levels of analysis, from the physician-patient interactions to health care systems and social policies. Students have the opportunity to develop their own specific research interests in this field. Prereq., SOCY 1001. Restricted to junior/senior SOCY majors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Sociology Population and Health Issue

SOCY-4071 (3) Social Stratification

Studies theories of class, ethnic, sex, and age stratification. Examines social inequality in the United States and analyzes the resulting conflicts. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as SOCY 5071.

[College of Arts & Sciences](#) [Sociology](#) [General Sociology](#)

SOCY-4081 (1-3) Sociology of Education

Analyzes the school as a social organization. Among topics considered are power and control in the school; classroom interaction and its relation to learning and personality development in students; roles of educators; and reciprocal relations of school and community.

Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors.

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SOCY

SOCY-4084 (3) Punishment, Law and Society

Places the current state of punishment in the U.S. in historical and cross national context. It examines key features of penal systems, and key sociological theories about the relationship between punishment and society. Prereqs., SOCY 1001 or 1004. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

[College of Arts & Sciences](#) [Sociology](#) [Deviance and Criminology](#)

SOCY-4086 (3) Family and Society

Studies the changing relationship between family and social structure. Examines variations in family organization and considers political, social, ideological, demographic, and economic determinants of family formation. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Restricted to junior/senior SOCY majors. Same as WMST 4086.

[College of Arts & Sciences](#) [Sociology](#) [Sex and Gender](#)

SOCY-4111 (3) Nonviolent Social Movements

Explores theories of democracy and development in relation to movements for nonviolent social change. Focuses on means and ends, spirituality, leadership, decision-making, civil society, cooperative economics, ecology, and decentralized power. Prereqs., SOCY 1001, and 3001 or 3011. Restricted to senior SOCY or PSCI majors. Same as INVS 4402.

[College of Arts & Sciences](#) [Sociology](#) [General Sociology](#)

SOCY-4121 (3) Sociology of Religion

Examines complex interactions between religious and other social structures, such as the economy, government, and the family, and how globalization is affecting religious traditions across the globe. Includes discussion of how various religions are used or misused to justify terrorism and other acts of violence. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4131 (1-3) Advanced Topics in Sociology

Variety of advanced specialty courses taught by visiting and regular faculty designed for upper division sociology majors. See current departmental announcement for specific content. May be repeated up to 9 total credit hours for different topics. Prereq., SOCY 1001. Restricted to junior and senior SOCY majors.

College of Arts & Sciences Sociology General Sociology

SOCY-4141 (3) The Social Psychology of Friendships

Studies friendships between individuals and groups, applying social psychological theories of interaction and group processes. Examines the effects of hierarchies of status and power and of norms and social pressure on friendships. Attempts to answer questions like how social categories like gender, race, and class affect friendships, what are the unwritten rules of behavior among friends in different situations, and what happens when we violate them. Prereq., SOCY 1001. Restricted to junior/senior SOCY majors.

College of Arts & Sciences Sociology General Sociology

SOCY-4441 (3) Senior Honors Seminar 1

Helps students design and initiate an honors thesis based on original sociological research. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to Sociology majors with a minimum grade point average of 3.30. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4451 (3) Senior Honors Seminar 2

Helps students complete an honors thesis based on original sociological research. Emphasizes analyzing data, writing research reports, and presenting results. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to Sociology majors with a minimum grade point average of 3.30. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4461 (3) Critical Studies in Sociology

Examines a sociological topic in depth, covering such issues as class structure, race relations, gender roles, criminal justice, and political conflict, with an emphasis on writing, reading, and critical thinking. Prereqs., SOCY 1001, and SOCY 3001 or 3011. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4841 (1-8) Independent Study in Sociology

Upper-division variable credit. May be repeated up to 8 total credit hours. Prereqs., SOCY 1001, and SOCY 3001 or 3011, and instructor consent. Restricted to SOCY majors. Prerequisites: Restricted to Sociology majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4911 (1-3) Teaching Sociology

Students participate in a teaching seminar under the supervision of a faculty member. Includes pedagogical strategies for implementing concrete educational goals and encouraging higher levels of creativity and analysis in a large, lower-division class. Emphasizes mentorship and personal development. Prereqs., SOCY 1004 and instructor consent. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-4931 (1-6) Internship in Sociology

Provides an academically supervised opportunity for junior and senior sociology majors to work in public or private organizations. Focuses on opportunities in criminal justice system, education, non-profits, health care, etc. May be repeated up to 6 total credit hours. Prereqs., SOCY 1001 and 3001 or 3011. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Sociology (SOCY) majors only.

College of Arts & Sciences Sociology General Sociology

SOCY-5031 (3) Research Design

Principles and practice of social research, including the nature of scientific explanation, the relationship between theory and research, research design, measurement problems, sampling questionnaire construction, interviewing, ethnographic methods, and statistical analysis.

College of Arts & Sciences Sociology General Sociology

SOCY-5037 (3) Hazards, Disasters and Society

Same as SOCY 4037.

College of Arts & Sciences Sociology Environment and Society

SOCY-5071 (3) Social Stratification

Same as SOCY 4071.

College of Arts & Sciences Sociology General Sociology

SOCY-5111 (3) Data 1: Introduction to Social Statistics

Introduces statistical analysis in the social sciences. Introduces basic techniques of inferential statistics and several bivariate statistical techniques including t-test for the difference in means, chi-square independence, analysis of variance (ANOVA), correlation, and simple regression (OLS). This course prepares students for the required course on multivariate regression techniques (Data 2). Prerequisites: Restricted to Sociology (SOCY) graduate students only.

College of Arts & Sciences Sociology General Sociology

SOCY-5201 (3) Graduate Seminar in Sociological Theory

Examines theoretical approaches to core issues and problems in sociology, including the nature of society, the relationship between society and the individual, the role of culture and social structure, the sources of social power, and the conceptual structure of sociological knowledge itself. Prerequisites: Restricted to Sociology (SOCY) graduate students only.

College of Arts & Sciences Sociology General Sociology

SOCY-5611 (3) Teaching in Sociology

Learn how to teach sociology more effectively while developing a new content area and a clearer sense of the field. Choose a content area within sociology as the basis for planning a course and developing and practicing different teaching techniques. Prereqs., enrollment in SOCY graduate program.

College of Arts & Sciences Sociology General Sociology

SOCY-5841 (1-6) Independent Study in Sociology

Graduate variable credit. May be repeated up to 7 total credit hours. Prereq., instructor consent.

College of Arts & Sciences Sociology General Sociology

SOCY-5937 (1-6) Graduate Research Internship in Environmental

Sociology

Offers the opportunity for sociology graduate students specializing in environmental sociology to work with local governmental or non-profit organizations on research assignments. The research topic, academic reading list, and expectations for the final project will be developed collaboratively with a faculty sponsor and organizational representative.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-6004 (3) Topics in Criminology

Variety of courses in criminology to be taught by visiting lecturers. See current departmental announcements for specific content. May be repeated up to 9 total credit hours for different topics. Formerly SOCY 5004.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-6007 (3) Foundations of Environmental Sociology

Provides overview of environmental sociological theory and research including topics such as: public environmental perception, concern, and knowledge; environmentalism as a social movement; environmental justice; energy, technology, and risk; human dimensions of environmental change; and natural hazards and disasters. Same as ENVS 6007. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-6012 (3) Population Issues, Problems, and Policies

Presents contemporary perspectives on relations between population and society. Focuses on mortality, fertility, and migration, the major demographic areas, with reviews of specific demographic phenomena and controversies. Formerly SOCY 5012.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-6016 (3) Topics in Sex and Gender

Covers diverse specializations of faculty in the area of sex and gender. See current departmental announcements or online Schedule Planner for specific content. May be repeated up to 9 total credit hours for different topics. Formerly SOCY 5016. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-6017 (3) Inequality, Democracy, and the Environment

Focuses on the structural forces affecting environmental degradation and environmental behavior by examining the relationships between a) inequality and democratic decision making and b) undemocratic economic and political decision making, U.S. and corporate food and energy policy; and global environmental degradation. Focus will also be placed on the role that global inequality plays in fostering

environmental degradation. Prereq., graduate standing. Formerly SOCY 5137.

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Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

SOCY

SOCY-6041 (3) Cultural Sociology

Explores "The cultural turn" in sociology and related disciplines. Reviews basic themes in cultural studies--e.g., distinguishing "Cultural" and "Social"; narrative as catalyst between symbols and practices; cultural production processes; self as embodied; culture and power; methods and epistemological issues. Students present their own projects in class and as research papers. Prereq., graduate standing. Formerly SOCY 5041.

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[General Sociology](#)

SOCY-6111 (3) Data 2: Data Analysis

Introduces students to mainstream multivariate regression techniques used in the social sciences. The majority of the course focuses on the Ordinary Least Square model and on the extension of this model to nominal, ordinal, and count dependent variables. Students will analyze data of their choosing with statistical software packages including SPSS, SAS, and STATA. Prereq., SOCY 5111 or equivalent. Formerly SOCY 5021.

[College of Arts & Sciences](#)
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SOCY-6121 (3) Qualitative Methods

Training in the systematic observation of people in situations, finding them where they are, staying with them in a role acceptable to them that allows intimate observations of behavior. Students report their findings in ways useful to social science but not harmful to those observed. Formerly SOCY 5121. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
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SOCY-6821 (2) Graduate Sociology Forum 1

Introduces first-year graduate students to the full range of substantive topics, research programs, and other projects in which graduate sociology faculty are engaged. Provides a forum in which issues of the discipline are presented and discussed. Features weekly presentations by graduate sociology faculty. Restricted to graduate students. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Sociology General Sociology

SOCY-6831 (1) Graduate Professional Seminar

Offers guidance and instruction on topics related to advanced graduate study and academic life beyond graduation. Discussions will include writing journal articles; creating a vitae; writing dissertations; applying for grants and other sources of funding; the academic job search; and what to expect as a junior faculty member. Restricted to graduate students.

College of Arts & Sciences Sociology General Sociology

SOCY-6841 (1-6) Guided Research in Sociology

May be repeated up to 7 total credit hours. Prereq., graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Sociology General Sociology

SOCY-6941 (1) Candidate for Degree for Master's Thesis

College of Arts & Sciences Sociology General Sociology

SOCY-6951 (1-6) Master's Thesis

College of Arts & Sciences Sociology General Sociology

SOCY-7002 (3) Social Disparities in Health

Presents social disparities in health in their social context. Includes the sociology of health behavior; links between health status and social statuses including gender, race, ethnicity, and socioeconomic status; fundamental causes and other explanations for social disparities in health; environment and health; health insurance disparities; the physician-patient interaction and its consequences. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Sociology Population and Health Issue

SOCY-7004 (3) Criminological Theory

Examines the major criminological theories of the 18th through 21st centuries in Europe, Australia, and the U.S. Emphasizes the historical contexts and paradigms of knowledge influencing these theories. Prereq., graduate standing. Formerly SOCY 5114.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7006 (3) Sociology of Sex and Gender

Theoretical and empirical examination of sex stratification, sex role differentiation, and sex differences in socialization, personality, institutions, and culture. Formerly SOCY 5006.

College of Arts & Sciences | Sociology | Sex and Gender

SOCY-7012 (3) The Social Demography of Race

Introduction to relevant, timely research within sociological and social demographic research on race and ethnicity. Specific areas will include conceptual/measurement issues; population size, growth, and migration; health and mortality; marriage, family, and fertility; socioeconomic context; and policy considerations. Course content will be structured around current empirical pieces in sociology literature with emphasis on methodological approach in analyses.

College of Arts & Sciences | Sociology | Population and Health Issue

SOCY-7014 (3) Patterns of Criminal Behavior

Overview of the epidemiology of crime. Examines patterns of crime (both offending and victimization), and includes a gender, race/ethnicity, and class analysis. Formerly SOCY 5214.

College of Arts & Sciences | Sociology | Deviance and Criminology

SOCY-7017 (3) Population and Environment

Reviews research on human-environment interactions, with a focus on ways in which demographic processes influence, and are influenced by, the environmental context. Specific topics include conceptual and analytical frameworks; methodologies; intervening factors shaping human dimensions of environmental change; and regionally-focused research. Prereq., graduate standing. Formerly SOCY 5117.

College of Arts & Sciences | Sociology | Environment and Society

SOCY-7024 (3) Punishment and Social Control

Exploration of sociological perspectives on the criminal justice process. Considers organization of criminal law responses, including enforcing and sentencing. Race, class, gender, and age differences in treatment and sentencing are analyzed. Prereq., graduate standing. Formerly SOCY 5314. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Sociology Deviance and Criminology

SOCY-7026 (3) Feminist Research Methods

Epistemological and methodological issues generated by feminist research and students' own projects. Formerly SOCY 5026.

College of Arts & Sciences Sociology Sex and Gender

SOCY-7034 (3) Capital Punishment in the United States

Surveys the history and current status of capital punishment in the United States, with a critical examination of arguments both for and against the death penalty. Prereq., graduate standing. Formerly SOCY 5414.

College of Arts & Sciences Sociology Deviance and Criminology

SOCY-7036 (3) Feminist Theory

Examines the main schools of feminist thought and their impact upon sociological theories. Also examines current feminist theoretical debates and their relevance to feminist sociology. Prereq., graduate standing. Formerly SOCY 5036. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Sociology Sex and Gender

SOCY-7111 (3) Data III---Advanced Data Analysis

Denotes third graduate course in sequence of quantitative methods. Following basic inferential statistics (SOCY 5111) and multivariate regression analysis (SOCY 6111), students study advanced statistical techniques such as event history analysis, multilevel modeling, structural equation modeling, and latent class analysis. May be repeated up to 9 total credit hours when topics vary. Prereqs., SOCY 5111 and 6111 and graduate standing. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Sociology General Sociology

SOCY-7121 (3) Qualitative Analysis

Drawing on data gathered through participation, observation, and in-depth interviewing, students focus on developing theoretical analyses and exploring classical and post-modern ethnographic writing formats. Students present and revise their papers as well as review journal articles. Prereqs., graduate standing and Socy 5121 or 6121, or instructor consent. Formerly Socy 5221. Prerequisites: Restricted to Graduate Students only.

SOCY-7131 (3) Seminar in Social Psychology

Studies the individual in social context. Focuses on theoretical perspectives and substantive issues specific to sociological and social psychology, including socialization, the self, social roles, language, deviance, gender, collective behavior, group processes, attitudes and behavior, social norms, and conformity. Formerly SOCY 5531.

SOCY-7171 (3) Special Topics

May be repeated up to 9 total credit hours. Prerequisites: Restricted to Graduate Students only.

SOCY-8991 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section.



Courses

Search by College, Department & Category

College/School

All

Search by Course Number

Subject **Number**

SPAN

SPAN-1000 (3) Cultural Difference through Hispanic Literature

For freshmen only. Organized around the general topic of cultural differences. Focuses on a related issue such as gender or history articulated in the literature of Spain, Latin America, and the Hispanic United States. Taught in English; students read selected literary texts in English from the various traditions. Does not count towards the Spanish major. Approved for GT-AH2. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 0-26 credits (Freshmen) only.

[College of Arts & Sciences](#)
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SPAN-1010 (5) Beginning Spanish 1

Offers students a firm command of Spanish grammar. Grammar is used as a point of departure for development of oral skills. Reading and writing are stressed to a lesser degree. Attendance at the language laboratory may be mandatory. Credit not granted for this course and Span 1150.

[College of Arts & Sciences](#)
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SPAN-1020 (5) Beginning Spanish 2

Continuation of Span 1010. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1010 (mingrade of C-), or placement. Credit not granted for this course and SPAN 1150.

[College of Arts & Sciences](#)
[Spanish](#)
[Spanish](#)

SPAN-1150 (5) Intensive First Year Spanish

An intensive beginning course covering the same material as Span 1010 and 1020. Attendance at the language laboratory may be mandatory. Similar to Span 1010 and 1020.

College of Arts & Sciences Spanish Spanish

SPAN-2110 (3) Second-Year Spanish 1

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 (min grade C-), or placement. Credit not granted for this course and SPAN 2150. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Spanish

SPAN-2120 (3) Second-Year Spanish 2

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 2110 (min grade C-) or better, or placement. Credit not granted for this course and SPAN 2150.

College of Arts & Sciences Spanish Spanish

SPAN-2150 (5) Intensive Second-Year Spanish

Intensive review of grammar and other subjects covered in SPAN 2110 and 2120. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 (min grade of C-), or placement and departmental approval. Credit not granted for this course and SPAN 2110 or 2120. Approved for GT-AH4. Meets MAPS requirement for foreign language.

College of Arts & Sciences Spanish Spanish

SPAN-2450 (3) Catalan for Spanish Speakers

Offers an intensive introduction to the Catalan language for those able to speak Spanish. By the end of the course students should be able to communicate well in all language-skills areas: listening comprehension, speaking, reading and writing. Students will also have gained a better understanding and appreciation of the Catalan singularity. Prereq., five semesters of college Spanish or equivalent, or SPAN 3000, or placement, or department approval.

College of Arts & Sciences Spanish Spanish

SPAN-3000 (5) Advanced Spanish Language Skills

Transitional course that introduces students to the Spanish major and improves their writing skills. Involves composition, reading, and to

a lesser extent, conversation. Prereq., Span 2120 or 2150 (min grade C-), the equivalent, or placement.

College of Arts & Sciences Spanish Spanish

SPAN-3001 (3) Spanish Conversation

Emphasizes vocabulary acquisition and speaking fluency. Through structured and carefully monitored individual, group, and class work, students achieve enduring language growth and meaningful acculturation that otherwise could only be achieved through an extended stay in an Hispanic country. This course is intended for those who are learning Spanish as a second-language. Native speakers of Spanish who have pursued formal education in a Spanish speaking country will not be admitted to the course. Heritage speakers of Spanish (native speakers who have pursued formal education in a non-Spanish speaking setting) as well as students from bi-lingual K-12 programs must meet with the coordinator to determine appropriate class level. Prereqs., SPAN 2120 or 2150 (min grade C-), the equivalent, or placement. Credit not granted for this course and SPAN 3002. Does not count toward the Spanish major.

College of Arts & Sciences Spanish Spanish

SPAN-3002 (3) Advanced Spanish Conversation

Designed for Spanish majors, this course focuses on refining fluency in both informal and formal discourse through group discussions, class work, and individual and group presentations with a focus on preparing students for communication in professional settings. To that end, the materials used in the course will emphasize themes and problems relevant to the contemporary Hispanic world. Prereq., SPAN 3000 (min grade C-) or equivalent. Credit not granted for this course and SPAN 3001.

College of Arts & Sciences Spanish Spanish

SPAN-3010 (3) Advanced Rhetoric and Composition

Designed to refine expository and argumentative writing in Spanish, this course will center around four main areas of study: culture, linguistics, sociopolitical and economic reality, and literature and criticism. A multi-draft process-based approach will guide the writing and revision of essays. Additionally, there will be a focus on grammar and lexical issues most challenging for students at the third-year level. Prereq., SPAN 3000 (min. grade C-). Similar to SPAN 4010. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Spanish Spanish

SPAN-3030 (3) Professional Spanish for Business 1

Includes the study of business vocabulary, business concepts, geographic context, and cultural context. Prereq., SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-3040 (3) Professional Spanish for Business 2

Continuation of SPAN 3030 with more emphasis on interpreting and elementary translation. Some attention is given to the writing of resumes and application letters, as well as to the entire job-search process. Prereqs., SPAN 3000, 3030. Prerequisites: Restricted to Spanish majors with a subplan of International Spanish for Professionals.

College of Arts & Sciences Spanish Spanish

SPAN-3050 (3) Spanish Phonology and Phonetics

Designed to teach some of the methods, techniques, and tools of descriptive linguistics as they apply to articulatory phonetics. Students analyze important contrasts between sounds of Spanish and English by means of phonetic transcription. Prereq., SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-3100 (3) Literary Analysis

Students read short stories and other brief narrative texts, critical and creative essays, short plays, and poems to facilitate the acquisition of critical skills in identification of basic ideological and formalistic issues within texts being studied. Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-3120 (3) Advanced Spanish Grammar

Analysis of texts from morphological and syntactic perspectives. Structural and semantic characteristics of major features of Spanish are studied at the sentence level. Use of these grammatical features is then studied in selected literary texts. Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-3150 (3) Linguistic Analysis of Spanish

Introduces students to fundamental areas of linguistic analysis with special attention paid to Spanish (and Portuguese). The structural systems of language will be introduced (principles of sound patterns, word formation, meaning, and sentence structure). Different types of language variation will be discussed (historical, social, regional). Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-3200 (3) Spanish Culture

Examines historical bases of modern Spain's cultural and political currents. Prereq., SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-3210 (3) The Cultural Heritage of Latin America

Examines literary, artistic, and philosophical currents in Latin America beginning with pre-Columbian indigenous cultures and continuing to the present. Prereq., SPAN 3000. Credit not granted for this course and SPAN 3220.

College of Arts & Sciences Spanish Spanish

SPAN-3220 (3) Latin American Culture: Spanish America and Brazil

Examines literary, artistic, and philosophical currents in Spanish America and Portuguese America (Brazil), from pre-Columbian times to the present. Taught in Spanish. Prereq., SPAN 3000. Recommended prereqs., PORT 2110 and 2120. Credit not granted for this course and SPAN 3210. Same as PORT 3220.

College of Arts & Sciences Spanish Spanish

SPAN-3230 (3) Discovering Barcelona: Culture and Heritage

Presents more than 2,000 years of Barcelona's cultural heritage in the city of Barcelona from the Romans to the present. We will read works by locals and foreign authors to understand how the city has been a hub of the European and Mediterranean cultures for centuries. This is a faculty sponsored Global Seminar to Barcelona, Spain, offered through the Study Abroad Program. Prereq., SPAN 3000 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-3240 (3) Catalan Culture 1: Nation and Art

Introduces students to the literary, artistic, and historical currents of Catalonia, an economically vibrant area of the Iberian Peninsula with 10 million people, its capital Barcelona, and a distinct culture and language. The course examines national identity and major works from renowned Catalan artists, spanning architecture, painting, and literature, like Dali, Gaudi, or Miro. Prereq., SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-3250 (3) Catalan Culture 2: Contemporary Trends and Barcelona

Introduces students to the contemporary social and cultural trends of Catalonia as they take place mainly in its capital Barcelona. The course examines current developments in fields such as theatre, art, fashion, cooking, urban design or architecture. Prereq., SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-3260 (3) Late 19th and 20th Century Argentine Narrative

Considers a series of late 19th and 20th century canonical works from several genres (poetry, short story, essay, and the novel). The student will acquire a very specific knowledge of late 19th and 20th century Argentine literature, its relationship to specific social actors and specific historical processes. This is a faculty sponsored Global Seminar to Rosario, Argentina, offered through the Study Abroad Program. Prereq., SPAN 3000 or equivalent.



Courses

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SPAN

SPAN-3270 (3) Barcelona: Understanding Local and Immigrant Cultures

Explores the history of Barcelona, a cosmopolitan city that is one of the oldest in Europe, from an interdisciplinary, European perspective that emphasizes the city's cultural diversity and pluralism. A range of historical, literary, artistic, and sociological texts will be examined. Taught in Spanish. Offered through the Study Abroad program. Prereq., SPAN 3000. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Spanish Spanish

SPAN-3280 (3) Introduction to Catalan Literature & Film

Introduces students to the rich and diverse literary and film traditions of Catalonia, an economically vibrant area of the Iberian Peninsula with 10 million people and a distinct culture and language. Prereq., SPAN 3000 or equivalent. Course taught in Spanish.

College of Arts & Sciences Spanish Spanish

SPAN-3310 (3) 20th Century Spanish Literature

Surveys leading writers of Spain from 1898 until the present. Prereq., SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-3340 (3) 20th Century Spanish American Literature

Introduces contemporary Spanish American literature. Prereq., SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-3800 (3) Selected Readings: Latin American Literature in Translation

Introduces selected Latin American (Spanish and Portuguese) literature masterpieces. Taught in English. Does not count toward the Spanish major. Approved for arts and sciences core curriculum: literature and the arts.

College of Arts & Sciences Spanish Spanish

SPAN-4010 (3) Advanced Rhetoric and Composition.

Designed to improve written expression in Spanish. Offers a detailed study of nuances of grammar points most difficult for students. Gives attention to errors in student compositions and to various styles of written Spanish. Prereqs., SPAN 3100 and 3120 or equivalent. Similar to SPAN 3010.

College of Arts & Sciences Spanish Spanish

SPAN-4060 (3) Problems of Business Translation in Spanish 1

Develops skills in English-Spanish and Spanish-English translation and interpretation. Prereq., SPAN 3040 or equivalent.

College of Arts & Sciences Spanish Spanish

SPAN-4070 (3) Problems of Business Translation in Spanish 2

Legal and commercial documents are studied, prepared, and discussed to enable students to perform successfully in real translation situations. Prereq., SPAN 4060 or equivalent. Prerequisites: Restricted to Spanish majors with a subplan of International Spanish for Professionals.

College of Arts & Sciences Spanish Spanish

SPAN-4110 (3) Hispanic Women Writers

Discusses the image of women in Spanish literature through the centuries using works by representative female writers. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-4150 (3) Masterpieces of Spanish Literature to 1700

Treats major literary tendencies of Spanish literature from its origins to the end of the Baroque period. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4160 (3) Masterpieces of Spanish Literature: 1700 to Present

Requires a reading of selected masterpieces and an examination of major movements and figures in the literature of Spain from 1700 to the present. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4170 (3) Masterpieces of Spanish American Literature to 1898

Examines major works of Spanish American literature from the colonial period to the late 19th century. Emphasizes major figures and their works. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4180 (3) Masterpieces of Spanish American Literature: 1898 to Present

Examines major works of Spanish American literature from late 19th century to present. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Prerequisites: Requires pre-requisite course of SPAN 3100.

College of Arts & Sciences Spanish Spanish

SPAN-4220 (1-3) Special Topics in Spanish and/or Spanish American Literature

Examines intensively particular topics or issues concerning Spanish and/or Spanish American literature selected by the instructor. May be repeated up to 7 total credit hours. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-4230 (3) Special Topics in Luso-Brazilian and/or African Literature

Designed to examine intensively particular topics or issues concerning the literatures of Portugal, Brazil, and/or the African countries of Portuguese colonization. Taught in Spanish. May be repeated up to 6 total credit hours. Prereqs., PORT 3230, SPAN 3100, 3120, and an

additional course above SPAN 3000. Same as PORT 4230.

College of Arts & Sciences Spanish Spanish

SPAN-4430 (3) Special Topics in Hispanic Linguistics

Examines intensively particular topics or issues concerning Hispanic linguistics selected by the instructor. May be repeated up to 9 total credit hours on different topics. Prereqs., SPAN 3100, 3120, and an additional course above 3000.

College of Arts & Sciences Spanish Spanish

SPAN-4450 (3) Introduction to Hispanic Linguistics

Introduces students to the main areas of inquiry within the field of Hispanic linguistics. Topics to be covered include speech and language, phonetics and phonology, morphology and syntax, semantics, linguistic change and variation, and Spanish spoken in the United States. Prereqs., SPAN 3100, 3120, and an additional course above 3000. Same as SPAN 5450.

College of Arts & Sciences Spanish Spanish

SPAN-4500 (3) Methods of Teaching Hispanic Literature and Cultures

Introduces the methodologies associated with teaching Hispanic literature and culture in the secondary schools. Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000. Same as SPAN 5500.

College of Arts & Sciences Spanish Spanish

SPAN-4620 (3) Cervantes

Prereqs., SPAN 3100, 3120, and an additional course above SPAN 3000.

College of Arts & Sciences Spanish Spanish

SPAN-4650 (3) Methods of Teaching Spanish

Familiarizes students with current methodology and techniques in foreign language teaching. Peer-teaching coupled with opportunity to teach mini-lessons provide students with actual teaching experience in the foreign language classroom. Prereqs., SPAN 3100, 3120, an additional course above SPAN 3000, and admission to the teacher certification program or departmental approval. Same as SPAN 5650.

College of Arts & Sciences Spanish Spanish

SPAN-4660 (6) High School Spanish Teaching

Part of supervised secondary school teaching required for state certification to teach Spanish. These hours do not count toward student hours in the major nor in the total departmental hours allowed. The credit is pass/fail only. Prereq., SPAN 4650/5650.

College of Arts & Sciences Spanish Spanish

SPAN-4840 (1-3) Independent Study

Departmental approval required. May be repeated up to 7 total credit hours.

College of Arts & Sciences Spanish Spanish

SPAN-4930 (1-4) Languages Internship for Professions

Participants interested in public service or management-oriented careers in government or business are able to work as interns in public sector agencies or in private industry, on campus, or abroad. Prereqs., SPAN 3100 and 3200, an additional course above SPAN 3000, and departmental approval. Instructor consent required.

College of Arts & Sciences Spanish Spanish

SPAN-4980 (1) Methods Language Learn/Pedagogy

Required, intensive mini-course for teaching assistants in Spanish and Portuguese. Provides teachers with the opportunity to learn about language learning theory and pedagogy. Prereq., graduate standing or departmental consent.

College of Arts & Sciences Spanish Spanish

SPAN-4990 (3) Spanish Honors Thesis

May be repeated up to 7 total credit hours. Prereqs., 18 hours of upper-division Spanish (3.00 GPA overall and 3.50 GPA in Spanish).

College of Arts & Sciences Spanish Spanish



Courses

Search by College, Department & Category

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All

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Subject Number

SPAN

SPAN-5120 (1-3) Seminar: Spanish Literature and/or Spanish American Literature

Selected topics in Spanish and/or Spanish American literature. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7120. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
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[Spanish](#)

SPAN-5130 (1-3) Seminar: Critical Approaches to Hispanic Literature

Treats various topics and genres, as needs and resources dictate. Gives special attention to theoretical and critical analysis of Hispanic literature with greatest emphasis on contemporary trends. Genres might include narrative, poetry, and theatre. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7130. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#)
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SPAN-5140 (3) Seminar: Spanish Literature, Medieval Period

Studies medieval works, authors, and themes, with consideration of principal influences from other literatures. Reading in Old Spanish. May be repeated up to 6 total credit hours. Prereq., graduate standing and SPAN 5420 or 7420 or instructor consent. Same as SPAN 7140.

[College of Arts & Sciences](#)
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SPAN-5200 (3) Seminar: Spanish Literature, Renaissance and Baroque

Treats various topics, as needs and resources dictate. Special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include Renaissance poetry in Spain, Cervantes, Don Quixote, and Novelas ejemplares, picaresque novel, and the Spanish comedia of the 17th century. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7200. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5210 (2-4) Seminar: Spanish Literature, 18th and/or 19th Centuries

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include romantic prose, poetry and theatre, realism and naturalism (prose narrative), 19th century poetry, and 19th century theatre. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7210. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5220 (1-3) Seminar: Spanish Literature, 20th Century

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include the generation of 1898, poetry of the 20th century, theatre of the 20th century, pre-Civil War novel, and post-Civil War novel. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7220. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5300 (2-4) Seminar: Spanish American Literature, Colonial Period and/or 19th Century

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include pre-Columbian literature, colonial prose and narrative, colonial poetry, romantic novel, the realist and naturalist novel and short story, 19th-century poetry, and gaucho literature. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5320 (1-3) Seminar: 20th Century Spanish American Literature

Treats various topics, as needs and resources dictate. Gives special attention to developing historical and current theoretical and critical background of each topic. Representative topics might include modernism, theatre, the essay, the regional novel, the novel of the Mexican Revolution, the modern novel, contemporary theatre, and contemporary poetry. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7320. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5400 (2-4) Seminar: Spanish Phonology

Topics within Spanish phonology are treated, as needs and resources dictate. Gives special attention to different schools and contemporary theoretical developments. Representative topics might include generative phonology applied to Spanish, Spanish phonology for college teaching, and different schools of Spanish phonology. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7400.

College of Arts & Sciences Spanish Spanish

SPAN-5410 (2-4) Seminar: Spanish Syntax

Treats topics within Spanish syntax, each requiring a semester's study, as needs and resources dictate. Gives special attention to different schools and contemporary theoretical developments. Representative topics may include generative/transformational grammar applied to Spanish, fundamental problems in Spanish syntax, and different schools of Spanish syntax. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7410.

College of Arts & Sciences Spanish Spanish

SPAN-5420 (2-4) Seminar: History of the Spanish Language

Treats topics within the history of the Spanish language, as needs and resources dictate. Concerned with linguistic evolution of Spanish from neo-Latino to its present status as a world language; considers important historic, linguistic, literary, and cultural currents. Representative topics might include a diachronic study of Spanish linguistic forms, the extension of Spanish to the New World, and linguistic and literary texts in Old Spanish. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or Departmental Consent. Same as SPAN 7420.20.

College of Arts & Sciences Spanish Spanish

SPAN-5430 (1-3) Seminar: Hispanic Linguistics

Studies a major topic from an area such as phonology, syntax, history of the Spanish language, Hispanic linguistics and literature, or applied Hispanic linguistics. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7430.

College of Arts & Sciences Spanish Spanish

SPAN-5440 (3) Seminar: Trends in Hispanic Linguistics

Provides an overview of major trends and issues in Hispanic linguistics, including phonology, syntax, dialectology, sociolinguistics, discourse analysis, text linguistics, semiotics, history of the Spanish language, language acquisition, and applied linguistics. May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental consent. Same as SPAN 7440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-5450 (3) Introduction to Hispanic Literature Linguistics

Same as Span 4450.

College of Arts & Sciences Spanish Spanish

SPAN-5460 (3) Topics in Spanish Applied Linguistics

Treats topics within the scope of Spanish first and second language acquisition and the speech of bilinguals. Other topics include contrasting linguistics, interlingual stages of learning, and code switching as they relate to language acquisition. Prereq., graduate standing or instructor consent. Same as Span 7460.

College of Arts & Sciences Spanish Spanish

SPAN-5500 (3) Seminar: Methods of Teaching Hispanic Literature and Cultures

Same as SPAN 4500.

College of Arts & Sciences Spanish Spanish

SPAN-5650 (3) Methods of Teaching Spanish

Same as SPAN 4650.

College of Arts & Sciences Spanish Spanish

SPAN-6840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-6940 (1) Master's Degree Candidate

Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-6950 (1-6) Master's Thesis

Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-7120 (1-3) Seminar: Spanish Literature and/or Spanish American Literature

Same as SPAN 5120. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7130 (1-3) Seminar: Critical Approaches to Hispanic Literature

Same as SPAN 5130. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7140 (3) Seminar: Spanish Literature, Medieval Period

Same as SPAN 5140. May be repeated up to 6 total credit hours.

College of Arts & Sciences Spanish Spanish

SPAN-7200 (3) Seminar: Spanish Literature, Renaissance and Baroque

Same as SPAN 5200. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7210 (2-4) Seminar: Spanish Literature, 18th and/or 19th Centuries

Same as SPAN 5210. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish



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SPAN

SPAN-7220 (1-3) Seminar: Spanish Literature, 20th Century

Same as SPAN 5220. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7300 (2-4) Seminar: Spanish American Literature, Colonial Period and/or 19th Century

Same as SPAN 5300. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7320 (1-3) Seminar: 20th Century Spanish American Literature

Same as SPAN 5320. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7400 (2-4) Seminar: Spanish Phonology

Same as SPAN 5400.

College of Arts & Sciences Spanish Spanish

SPAN-7410 (2-4) Seminar: Spanish Syntax

Same as SPAN 5410.

College of Arts & Sciences Spanish Spanish

SPAN-7420 (2-4) Seminar: History of the Spanish Language

Same as SPAN 5420.

College of Arts & Sciences Spanish Spanish

SPAN-7430 (1-3) Seminar: Hispanic Linguistics

Same as SPAN 5430.

College of Arts & Sciences Spanish Spanish

SPAN-7440 (3) Seminar: Trends in Hispanic Linguistics

Same as SPAN 5440. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Spanish Spanish

SPAN-7460 (3) Topics in Spanish Language Acquisition and Applied Linguistics

Same as SPAN 5460.

College of Arts & Sciences Spanish Spanish

SPAN-8840 (1-3) Independent Study

May be repeated up to 7 total credit hours. Prereq., graduate standing in Spanish or departmental approval.

College of Arts & Sciences Spanish Spanish

SPAN-8990 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prereq., graduate standing in Spanish or departmental approval.

[College of Arts & Sciences](#) [Spanish](#) [Spanish](#)

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SUST

SUST-2800 (1-3) Special Topics

Covers a variety of topics not currently offered in the curriculum; offered depending on instructor availability and student demand. May be repeated up to 9 total credit hours, provided the topics vary. Prerequisites: Restricted to Sustainability by Design Residential Academic Program (PSBD) or Sustainability and Social Innovation (SSI) Residential Academic Program (PSEE) students only.

[College of Engineering & Applied Science](#) | [Sustainability by Design RAP](#)



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SWED

SWED-1010 (4) Beginning Swedish 1

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Swedish](#)

SWED-1020 (4) Beginning Swedish 2

Prereq., SWED 1010 (min grade of C-).

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Swedish](#)

SWED-1900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Swedish](#)

SWED-2110 (4) Second-Year Swedish Reading and Conversation 1

Prereq., SWED 1020 (min grade C-). Meets MAPS requirement for foreign language. Fulfills the arts and sciences language requirement for the BA and BFA degrees. Approved for GT-AH4.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Swedish](#)

SWED-2120 (4) Second-Year Swedish Reading and Conversation 2

Prereq., SWED 2110 with a grade of C- or better.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Swedish](#)

SWED-3900 (1-6) Independent Study

May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Swedish](#)



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TBTN

TBTN-1010 (4) Beginning Colloquial Tibetan I

Provides a thorough introduction to colloquial forms of Tibetan. This course focuses on conversation practice, the acquisition of basic vocabulary and grammar in colloquial usage, learning the alphabet, and training in the skills of pronunciation, spelling and handwriting.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Tibetan](#)

TBTN-1020 (4) Beginning Colloquial Tibetan II

Provides a thorough introduction to colloquial forms of Tibetan. This course continues the development of vocabulary and grammar begun in Tibetan I and expands the range of conversation topics. While students focus on oral and aural skills, they begin to learn to read and write modern Tibetan to produce an overall knowledge of the language. Prereq., TBTN 1010 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Tibetan](#)

TBTN-2010 (4) Intermediate Colloquial Tibetan I

Aims at increasing students' proficiency in colloquial forms of Tibetan. This course expands knowledge of the vocabulary and grammar of spoken Tibetan and engages in more advanced conversation topics while also continuing to develop reading knowledge of modern Tibetan. Prereq., TBTN 1010 and 1020 (min. grade C) or instructor consent.

[College of Arts & Sciences](#) [Asian Languages & Civilizations](#) [Tibetan](#)

TBTN-2020 (4) Intermediate Colloquial Tibetan II

Aims at increasing students' proficiency in colloquial forms of Tibetan. This course expands knowledge of the vocabulary and grammar of colloquial Tibetan and also continues to develop knowledge of reading and writing modern Tibetan. Prereq., TBTN 2010 (min. grade C) or instructor consent.

College of Arts & Sciences Asian Languages & Civilizations Tibetan

TBTN-3210 (4) Beginning Literary Tibetan 1

Provides a thorough introduction to literary and colloquial forms of Tibetan. This course focuses on the grammatical foundation of the language, the acquisition of basic vocabulary, and training in the skills of pronunciation, conversation, handwriting and spelling.

College of Arts & Sciences Asian Languages & Civilizations Tibetan

TBTN-3220 (4) Beginning Literary Tibetan 2

Continuation of TBTN 3210. Provides a thorough introduction to literary and colloquial forms of Tibetan. This course continues the grammar and vocabulary work begun in Tibetan 1 by studying actual Tibetan text and moving to more advanced conversation topics. Students develop oral, aural, and written skills to produce an overall knowledge of the language. Prereq., TBTN 3210 (min grade C-).

College of Arts & Sciences Asian Languages & Civilizations Tibetan

TBTN-4210 (4) Intermediate Literary Tibetan 1

Aims at increasing students' proficiency in literary and colloquial forms of Tibetan. This course expands knowledge of the grammar and vocabulary of literary Tibetan through translating texts in a variety of genres and also continues to develop knowledge of spoken modern Tibetan. Prereqs., TBTN 3210 and 3220 (min grade C-).

College of Arts & Sciences Asian Languages & Civilizations Tibetan

TBTN-4220 (4) Intermediate Literary Tibetan 2

Continuation of TBTN 4210. Aims at increasing students' proficiency in literary and colloquial forms of Tibetan. This course expands knowledge of the grammar and vocabulary of literary Tibetan through translating texts in a variety of genres and also continues to develop knowledge of spoken modern Tibetan. Prereq., TBTN 4210 (min grade C-).

College of Arts & Sciences Asian Languages & Civilizations Tibetan



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Subject **Number**

THTR

THTR-1003 (3) Acting for Nonmajors

Teaches the basic principles of acting for those with no previous acting experience, focusing on relaxation, concentration, improvisation, use of imagination, actions, objectives, initial monologue and scene work, and basic terms and concepts of process work for the actor.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

THTR-1009 (3) Introduction to Theatre

Introduces the varieties of theatrical art, past and present, contributions of the various theatrical artists to the total production, and the place of theatre art in today's society. Designed for nonmajors. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Theater & Dance](#) [Special Courses in Theatre](#)

THTR-1011 (3) Development of Theatre 1: Forms of Classical Theatre and Drama

Examines the interaction of dramatic literature and performance in classical forms of European and Asian theatre, including Greek, Roman, Indian, Japanese, Medieval, and Renaissance European. Approved for GT-AH1. Approved for arts and sciences core curriculum: literature and the arts.

[College of Arts & Sciences](#) [Theater & Dance](#) [History/Dramaturgy/Directing](#)

THTR-1019 (3) Theatre Foundations: Text Analysis and Practice for the Theatre Arts

Introduces fundamental methods of text analysis for the stage, presents common vocabulary and concepts of the theatre event as an art form and how it works, and what playmaking means to those who do it. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) Theatre (THTR or TBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Special Courses in Theatre](#)

THTR-1105 (3) Stage Technologies

Introduces technical production elements and procedures, including materials, organizations, methods and equipment to realize theatrical scenery, properties, lighting and sound. Credit not granted for this course and THTR 1065 or 1075.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

THTR-1115 (3) Costume Technologies

Introduces technical production elements and procedures including materials, organizations, methods and equipment to realize theatrical costuming and make-up. Credit not granted for this course and THTR 1065 or 1075. Prerequisites: Restricted to students with 0-56 credits (Freshmen or Sophomore) only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

THTR-2003 (3) Acting 1

Emphasizes principles of acting, focusing on exercises in relaxation, talking and listening, actions and objectives, and basic concepts of process work. Prerequisites: Restricted to Theatre (THTR, TBFA) Dance (DNCE, DBFA), Film or Arts and Sciences Open Option majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

THTR-2013 (3) Performance of Literature

Students learn to perceive literary form and content and to translate that perception into classroom performances of selected modern plays and stories. Performances, both solo and ensemble, embody literary texts diverse in terms of gender and ethnicity. Prereqs., 15 credit hours and THTR 1003, 2003 or 2043.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

THTR-2021 (3) Development of Theatre 2: Forms of Modern Theatre and Drama

Examines the interaction of dramatic literature and performance in European theatre from 1800 to present, with attention to innovators like Ibsen, Strindberg, Stanislavsky, Meyerhold, Pirandello, Brecht, Beckett, and Churchill.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-2035 (3) Design Fundamentals

Introduces principles and techniques relevant to the expression of dramatic mood and idea through visual elements of the theatre, giving practice in concept development, style selection, and rendering techniques in scenery and costume design.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-2043 (3) Voice and Movement for the Stage

Natural resources of the human voice and body are studied as artistic resources for the performing artist. Designed to examine both the process and products of vocal and physical craft work. Prerequisites: Restricted to Theatre (THTR, TBFA) or Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-2059 (3) Open Topics in Theatre and Drama

Covers topics not otherwise listed in the curriculum. Topics for each semester are specified in the online schedule planner.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-2105 (3) Introduction to Theatre Design

Introduces the process and procedures of Theatrical Stage Design, including scenery, costumes, lighting and sound design. Course requires project work and graphic skill development. Students learn through hands-on activities and observation.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-2849 (1-3) Independent Study

May be repeated up to 3 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-3005 (3) Costume Design 1

Study and application of the principles of design as applied to stage costume, emphasizing texts in analysis and interpretation. Presented in a studio format and project driven. Explores concept development, style selection, and extensive practice in a variety of media and techniques for costume rendering. Prereq., THTR 1115 or instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3011 (3) Development of the American Musical Theatre

Studies the American musical theatre heritage and its relation to the continually changing social milieu. Examines productions, their creators, and performers. Recommended prereq., 3 credits in THTR, DNCE, or MUSC. Approved for arts and sciences core curriculum: literature and the arts. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences, Leeds School of Business, College of Music or School Journalism and Mass Communication students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-3013 (3) Studio 1: Building a Character

Students learn to deepen and develop their proficiency with specific acting techniques. Explores the craft elements of acting, as well as text analysis. Prereq., THTR 2003. Restricted to BFA program in acting or instructor consent. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors) Theatre (TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3015 (3) Scene Design 1

Examines the process of theatrical scene design from early conception to realization. Course work is project-based. Students are introduced to the crafts of script analysis, conceptualization, design expression, drafting, and 3-D model building.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3023 (3) Studio 2: Creating a Role

Continued development of acting technique and tools for play analysis, with particular emphasis on scene study. Special attention will be given to the Master Teachers of Acting and their pedagogies. Prereq., THTR 3013 or instructor consent. Prerequisites: Restricted to Theatre (TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3031 (3) Development of Theatre 3: 20th Century International

Drama

Introduces 20th century international drama. Discusses selected plays by major African, Asian, and European authors and explores different dramatic traditions and their increasing interactions throughout the 20th century.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-3033 (1-3) Production Research and Practicum: Acting

Allows students to undertake an acting project, either within the major season or approved departmental production. Requires detailed preparational research, rehearsal commitments, and public presentation of theories and concepts in practice. Following the performance, students present written reports and evaluations. May be repeated up to 3 total credit hours. Prereq., THTR 2003 or 2043.

College of Arts & Sciences Theater & Dance Performance

THTR-3035 (1-2) Production Practicum

Practical production projects within a designated area of technical theatre, design, stage management, normally related to the department's season. May be repeated up to 8 total credit hours. Prereqs., THTR 1105 and 1115.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3037 (2-3) Shakespeare Practicum

Students are assigned to work with production artisans of the Colorado Shakespeare Festival. While there are many possible areas, production designs for each season determine the number of available positions. May substitute for two credits of THTR 3035. Prereq., THTR 1105 or 1115.

College of Arts & Sciences Theater & Dance Shakespearean Production

THTR-3043 (3) Advanced Voice for the Stage

Continues the work begun in THTR 2043. Studies advanced vocal techniques with the goal of integrating these skills into the working process of the performing artist. Prereqs., THTR 2043 or instructor consent. Prerequisites: Restricted to Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-3045 (3) Stage Management

Covers stage management from the inception of a production concept through the process of mounting a production, focusing on the interrelationships of the various artists involved, management and scheduling of time, and the psychology of handling a wide range of

personalities. Prereq., THTR 1105 or instructor consent.

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THTR

THTR-3053 (3) Acting 2

Continuation of the techniques introduced in the beginning acting courses (THTR 1003 and 2003). Emphasis is placed on monologues and scene study of contemporary plays. Basic techniques in developing a character are explored. Prereq., THTR 1003 or 2003.

Prerequisites: Restricted to Theatre, Music, Music Arts or Film Majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

THTR-3055 (3) Stage Lighting Design 1

Introduces the craft of stage lighting design through experimental lighting labs, lecture/demos, hands-on production experience, and theoretical projects. Subject matter includes aesthetics of light, colortheory, lighting for performance, design graphics, and basic lighting technology. Prereq., THTR 1105 or instructor consent.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

THTR-3075 (3) Sound Design

Study and application of the principles of sound technology and design, emphasizing concepts of electricity, acoustics, equipment, and their application to the stage. Prereq., THTR 1105 or instructor consent.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

THTR-3085 (3) History of Western Fashion

Surveys topics in western dress from ancient civilizations to contemporary time: the garments, accessories, materials, and technologies of

personal adornment in the context of philosophical, political, social, and technological change. Priority given to majors. Replaces THTR 2085.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-3149 (2) Professional Orientation: Exploring Professional Potentials for Theatre Majors

To explore and identify a wide range of professional opportunities connected to personal strengths and interests in theatre by studying current professional practices, trends and cross-disciplinary connections. Instructor will: provide information/learning needed from representative professionals; open avenues to find/create employment opportunities (including those not limited to theatre related fields) towards internship consideration/post-graduation; and mentor structured self-assessment/professional development. Prereq., THTR 1019. Recommended prereqs., THTR 1105 or 1115.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-3849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4005 (3) Costume Design 2

Advanced studio course building on experiences and techniques studied in THTR 3005, with additional emphases on portfolio quality rendering technique and costume production technology as it affects and is affected by the designer. Prereq., THTR 3005.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4013 (3) Studio 3: Acting Shakespeare

In-depth study of Shakespearean texts from the perspective of their demands on the actor, including the conventions and performance styles of Elizabethan theatre. Prereqs., THTR 3013 and 3023, or instructor consent. Prerequisites: Restricted to Theatre (TBFA) majors only.

College of Arts & Sciences Theater & Dance Performance

THTR-4015 (3) Scene Design 2

Advanced projects in theatrical scene design. Provides intensive practice in sketching, rendering, drafting and model-building. Emphasizes portfolio development and preparing the student designer for graduate training or professional work. Prereq., THTR 3015 or

instructor consent.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4021 (3) Development of Theatre 4: American Theatre and Drama

Explores issues in American theatre and drama in the 19th through 20th centuries. Prereqs., junior or senior standing and at least 12 hours of THTR course work. Similar to THTR 4001. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Theatre (THTR or TBFA) majors only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4023 (3) Studio 4: Playing with Styles

Studies selected styles of theatre performance such as Greek Drama, Comedy of Manners, Commedia Dell'art, Modern Realism, Theatre of Absurd, and Non-Western Theatre, including vocal and physical style elements. Prereq., THTR 3013, 3023, and 4013, or instructor consent.

College of Arts & Sciences Theater & Dance Performance

THTR-4029 (1-12) Cu-Boulder Touring Company

Participation in departmental touring dance company. By audition. May be repeated up to 12 total credit hours. Prereqs., DNCE 2021, 3041, or 4061. Full-year course; course consecutive fall and spring semesters required. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4033 (3) Advanced Movement for the Stage

Continues the work begun in THTR 2043. Studies the advanced physical techniques with the goal of integrating these skills into the working processes of the performing artist. Prereqs., THTR 2043 or instructor consent.

College of Arts & Sciences Theater & Dance Performance

THTR-4035 (3) Scene Painting

Introduces the craft of scene painting through practical projects. Sessions are in a studio format. Students are trained in traditional methods of scenic art, including layout, representational painting, trompe l'oeil, faux finishing, and related skills. Students are taught about proper tool use and care, paint products, and the profession.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4039 (3) Musical Theatre Repertory

Developed around the learning of complete scenes, songs, and dances that are representative of the major periods and styles within musical comedy from the 1920s to the present. Emphasizes in-class performance. Admission by audition. May be repeated up to six total credit hours. Same as THTR 5039. Prerequisites: Restricted to Theatre (THTR or TBFA) or Dance (DNCE or DBFA) Majors only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4041 (3) Women and Theatre of the 20th and 21st Centuries

Explores a body of 20th and 21st century dramatic literature central to the study of women and theatre as well as the study of 20th and 21st century cultural history from a cross-national and multiracial feminist perspective. Major playwrights, particularly women from Asia, Africa, and Europe, are read and discussed. Recommended prereq., THTR 3031. Same as THTR 5041 and WMST 4041.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4047 (3) Shakespeare Behind the Scenes

Detailed study of script analysis, directing concepts, staging and criticism of the plays being produced by the Colorado Shakespeare Festival.

College of Arts & Sciences Theater & Dance Shakespearean Production

THTR-4049 (1-4) Problems in Theatre

Opportunity for students to explore, upon consultation with the instructor, areas in theatre that the normal sequence of offerings may not allow. May be repeated up to 9 total credit hours. Same as THTR 5049.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4051 (3) Playwriting

Introductory course in craft of playwriting; primary focus on technique of developing short plays. Instructor consent required. May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4055 (3) Stage Lighting Design 2

Assumes a basic knowledge of stage lighting; concentrates on advanced technology, processes, and design projects. Prereq., THTR 3055.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-4059 (3) Open Topics in Theatre and Drama

Covers topics not otherwise listed in the curriculum. Topics for each semester are specified in the online Schedule Planner. May be repeated up to 9 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-4061 (3) Directing

Theory and practice of directing for the stage. Prereqs., THTR 1003 or 2003; THTR 1105 and 1115, and two semesters of THTR 3035.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-4063 (3) Audition Techniques

Prepares students for the demands of the acting profession. Trains students in various audition techniques including general auditions, prepared auditions, cold readings, on-camera auditions, and commercial auditions. Shows how to prepare and perfect audition material in a professional and exemplary way. Discusses agents, casting directors, and the process of becoming a professional actor.

College of Arts & Sciences Theater & Dance Performance

THTR-4073 (3) Performing Voices of Women

Explores theories underlying the "Feminine voice," varied perspectives in prose and poetry, ways of embodying these voices and perspectives in performance forms, and ultimately the students' own voices through creation of autobiographical performance pieces (some to be presented for student audiences). Open to both men and women. Prereq., instructor consent. Same as WMST 4073.

College of Arts & Sciences Theater & Dance Performance

THTR-4081 (3) Senior Seminar

Intellectual and conceptual capstone course for departmental majors with separate sections for theatre and dance students. Course promotes integration of ideas regarding history, criticism, and theory in performance and production. All inquiry throughout the semester

relates to the theme of creative process.

[College of Arts & Sciences](#) [Theater & Dance](#) [History/Dramaturgy/Directing](#)

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Courses

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Subject **Number**

THTR

THTR-4085 (3) Theatre Management

Concentrates on theory and practice of management aspects of the performing arts, emphasizing theatre and dance. Includes marketing, budgeting, house and stage management, audience development, grant writing, unions, and season development. Includes practical experience. Prereqs., THTR 1105 and 1115. Credit not granted for this course and THTR 3065. Same as THTR 5085.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Theatre Design and Technology](#)

THTR-4095 (1-3) Special Topics in Theatre Design and Technology

Intensive study of specialized topics in theatre technology and design. Topics and credits specified in the online Schedule Planner. May be repeated up to 12 total credit hours within a term.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Theatre Design and Technology](#)

THTR-4103 (3) Acting for the Camera

Introduces fundamental tools of acting for the camera. Students learn basic film terminology, specific camera acting techniques, and the demands placed on an actor when shooting a film. Uses exercises, scenes, monologues, and readings to provide a solid understanding of how to create a character, analyze a text, utilize important vocabulary, and perform effectively on camera. Prereq., THTR 1003 or 2003 or instructor consent.

[College of Arts & Sciences](#)
[Theater & Dance](#)
[Performance](#)

THTR-4135 (3) Technical Production

Examines the process of and technology for producing theatrical scenery on a limited production timeline. Prereq., THTR 3035. Recommended prereq., THTR 3015 or 3055.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

THTR-4145 (3) Colloquium in Advanced Design

An advanced theatre design course that emphasizes the collaborative process and advanced design presentation methods. Course work includes completion of several "mock" design projects, with students often working in collaborative teams.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

THTR-4149 (1-3) Theatre Internship

Provides opportunities for theatre majors to explore career opportunities in theatre fields other than, or in addition to, those with performance emphasis. Students apply knowledge and skills developed in their major studies to a practical work experience. Maybe repeated up to 6 total credit hours. Prereq., 30 credit hours in THTR.

[College of Arts & Sciences](#) [Theater & Dance](#) [Special Courses in Theatre](#)

THTR-4193 (3) Studio 5: Creating an Ensemble

Students create an ensemble piece utilizing collaborative approaches. Emphasizes training actors in weaving personal, social, political, and cultural threads into an enactment. Prereqs., THTR 3013, 3023, 4013, 4023, or instructor consent.

[College of Arts & Sciences](#) [Theater & Dance](#) [Performance](#)

THTR-4555 (1-2) Production Studio

Requires participation in a Theatre department production assignment in the areas of design, technology, or management, as well as participation in a semester portfolio review. May be repeated up to 6 total credit hours. Restricted to TBFA majors. Credit not granted for this course and THTR 4065 or 4075. Prerequisites: Restricted to Theatre (TBFA) majors only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

THTR-4849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-5011 (3) Seminar: Theory and Criticism

Studies theories and criticisms of drama and theatrical performances from Plato to post-modernism. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-5025 (3) Costume Patterning and Construction

Includes techniques for the patterning and construction of contemporary and period costumes. Hands-on format covers techniques, materials, and equipment particular to theatrical production. Prereqs., THTR 1105 and 1115. Formerly THTR 4025.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-5031 (3) Russian Theatre

Studies Russian theatre history and the development of Russian drama from the 18th century to the present. Taught in translation.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-5039 (3) Musical Theatre Repertory

Same as THTR 4039.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-5041 (3) Women and Theatre of the 20th and 21st Centuries

Same as THTR 4041. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-5049 (1-4) Problems in Theatre

Same as THTR 4049. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-5051 (3) Special Topics in Theatre History

Detailed study of a particular topic in theatre history (e.g., an era, a style, a country, or an organization). Topic specified in the online Schedule Planner. May be repeated up to 9 total credit hours on different topics. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-5061 (3) Seminar: Asian Performance

Study of live performance forms, theory, and literature throughout Asia: performance history, production styles, and social functions of performance. Background in theatre, dance, or Asian studies recommended. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-5071 (3) Perspectives on Directing

Advanced study of theory and practice of stage directing through examination of the work of leading directors, analysis of texts, and classroom exercises. Prereq., previous directing course work and/or directing experience.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-5085 (3) Theatre Management

Same as THTR 4085.

College of Arts & Sciences Theater & Dance Theatre Design and Technology

THTR-5849 (1-3) Independent Study

May be repeated up to 6 total credit hours.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-6003 (1-3) Production Research and Practicum: Acting

Allows students to undertake an acting project, normally within the major theatre season, that requires detailed preparatory research, testing of ideas, and public presentation. Students work under faculty supervision and prepare a written report and evaluation of the research, rehearsal, and performance process. Prereqs., advanced studies in acting and advisor approval. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Performance

THTR-6005 (1-3) Production Research and Practicum: Designing

Allows students to undertake a design project, normally within the theatre season, that requires detailed preparatory research, testing of ideas, and public presentation of theories and concepts in practice. Students work under faculty supervision, and prepare a documented written report and evaluation of the research, design, and realization process, as well as fully rendered designs and/or plots. Projects may be in costumes, lights, or scenery. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Theatre Design and Technology](#)

THTR-6007 (3) Colorado Shakespeare Festival Dramaturgy

Students work as production dramaturgs for the Colorado Shakespeare Festival, developing detailed textual, historical, and critical research for CSF productions, participating in education and outreach programs, and writing production-related articles for publication. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Theater & Dance](#) [Shakespearean Production](#)

THTR-6009 (1) Research Strategies and Techniques

Examines research methodologies appropriate to the performing arts, particularly theatre and dance. Projects are aimed at familiarizing graduate students with the library and other resources, and the development of thesis and dissertation prospectuses. Same as DNCE 6009. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [Special Courses in Theatre](#)

THTR-6011 (3) Global Ancient and Classical Theatre

Studies classical and neoclassical drama in performance, with particular attention to 20th century productions and the critical and scholarly responses to these productions.

[College of Arts & Sciences](#) [Theater & Dance](#) [History/Dramaturgy/Directing](#)

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THTR

THTR-6021 (3) On-Stage Studies: English Renaissance Drama

Studies Elizabethan and Jacobean dramatic texts as playscripts for performance, with particular attention to contemporary Shakespeare criticism and landmark Shakespeare productions over the last two centuries.

[College of Arts & Sciences](#) [Theater & Dance](#) [History/Dramaturgy/Directing](#)

THTR-6031 (3) On-Stage Studies: American Theatre

Studies American drama in performance, with particular attention to critical and scholarly responses to landmark productions of American classics. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Theater & Dance](#) [History/Dramaturgy/Directing](#)

THTR-6041 (3) On-Stage Studies: Modern Theatre

Studies European theatre from 1600 to 1950, with particular attention paid to critical and scholarly responses to landmark productions of classics from the period.

[College of Arts & Sciences](#) [Theater & Dance](#) [History/Dramaturgy/Directing](#)

THTR-6051 (1-3) Production Research and Practicum: Directing

Allows students to undertake a production project, normally within the major theatre season, that requires detailed preparatory research, testing of ideas, and public presentation. Students work under faculty supervision and prepare a documented written report and evaluation of the research, rehearsal, and performance process. Prereqs., advanced course work in directing and advisor approval.

Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6071 (3) Seminar: Perspectives on Acting

Art of acting is examined through study of acting theories and practices developed during major periods of theatre history. Examines the variety of theories about acting that remain today.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6081 (3) Seminar in American Theatre: Lesbians and Gays

Studies the portrayal of lesbians and gays in mainstream American theatre during the 20th and 21st centuries, as well as the contributions of gay and lesbian theatre artists during the same period.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6091 (1-3) Production Research and Practicum: Dramaturgy

Students undertake a dramaturgical project, normally within the major season, requiring detailed preparatory research, testing of ideas, and public presentation of theories and concepts in practice. Students work under faculty supervision and prepare a documented written report of their project. Prereqs., advanced course work in dramatic literature and advisor approval.

College of Arts & Sciences Theater & Dance History/Dramaturgy/Directing

THTR-6849 (1-3) Independent Study

May be repeated up to 6 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-6949 (1) Master's Candidate

College of Arts & Sciences Theater & Dance Special Courses in Theatre

THTR-6959 (1-6) Master's Thesis

May be repeated up to 6 total credit hours.

THTR-8999 (1-10) Doctoral Dissertation

All doctoral students must register for not fewer than 30 hours of dissertation credit as part of the requirements for the degree. For a detailed discussion of doctoral dissertation credit, refer to the Graduate School section. Prerequisites: Restricted to Graduate Students only.



Courses

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Subject **Number**

TLEN

TLEN-5010 (3) Network Economics and Finance I

Introduces students to the fundamental theoretical framework and tools used by economists to examine decision making under scarcity. Reviews mathematical economics and models. Examines consumer choice and firm supply. These two aspects of the market are brought together to examine how price and output are determined in competitive and imperfectly competitive markets. Introduces financial economics, network effects and public goods. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-5020 (3) Economics of Competition Policy in Network Industries

Develops methods to evaluate investments to account for uncertainty and dynamics. Examines approaches such as real options methodology, useful in a wide variety of applications including stock and project valuations, capital budgeting, and strategic planning. Prereq., TLEN 5010 or instructor consent.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-5050 (3) Leadership and Management

One year work experience is required. Same as EMEN 5050. Prerequisites: Restricted to Leeds School of Business or College of Engineering graduate students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-5106 (3) International Telecommunications

Examines the theoretical and practical identification, evaluation, and alternative strategies to establish a telecommunications venture in developed and developing countries. A semester-long project will develop and present a business plan to a potential investor. Class topics include cultural issues, partnerships, pricing, marketing, operations, financial structure, and risk. National approaches to licensing, pricing, spectrum, interconnection, and competition law are emphasized. Prereq., TLEN 5010. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5130 (3) Telecommunications Business Strategy

Covers concepts, strategies, and practical implementation of market oriented business strategy in the telecom industry grounded with real world examples. Topics include positioning, segmentation/ targeting, technology adoption, advertising/outreach, communication strategies, product management, sales process and business intelligence. Prereq., TLEN 5010. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5140 (3) IT and Business Strategy

Although some companies are very successful in discovering and cultivating innovative technology-enabled business strategies, many fail in the process. Combines theories and frameworks with practical approaches to provide students with the skills required to help companies identify business opportunities, find appropriate information related technologies, and lead adoption efforts to success. Prereq., TLEN 5010. Same as OPIM 4040/5040 and MGMT 4090.

College of Engineering & Applied Science Telecommunications

TLEN-5150 (1) Managing Effectively in a Changing Telecommunications Environment

Provides students with an opportunity to join international managers and policy makers from around the world in an intensive seminar focused on the challenges of managing in a telecommunications environment in an era of technological change. Guest lecturers provide an effective overview of the cutting-edge issues managers face in telecom and technology companies around the world. TLEN 5150 and ATLS 5150 are the same course.

College of Engineering & Applied Science Telecommunications

TLEN-5160 (3) Information Technologies and Communications

Provides a perspective of the basic and relevant issues of the communications and information technologies (CIT) industry, while gaining a wide picture overview of its main problems and trends. Students learn the technical, economic, management, and regulatory perspectives of CIT. The fundamental concepts and terminology associated with the communications industry is included in the course content. Recommended prereq., TLEN 5010.

College of Engineering & Applied Science Telecommunications

TLEN-5190 (3) Standardization and Standards Wars

Examines current issues and strategy in the standardization of telecommunications and information technologies. Covers topics on the importance of standards, government and private sector perspectives, and impact of information age technologies on standards development. Introduces students to relevance of antitrust and intellectual property law to the topic.

College of Engineering & Applied Science | Telecommunications

TLEN-5206 (3) International Telecommunication Policy and Best Practices

Addresses networking and telecommunication policy issues faced by countries around the world. Subjects include financing projects, service for underdeveloped/under served areas, managing spectrum effectively, licensing new service providers, and complying with international treaty obligations. Recommended prereqs., TLEN 5010 and 5210. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science | Telecommunications

TLEN-5210 (2) Principles of Telecommunications Policy

Learn the key issues and principles that guide the decisions of policy makers with respect to the regulatory treatment of voice, video, and data communications. Engage in critical debate, and develop instincts for anticipating the likely regulatory models that may be applied to new technologies. This introductory course covers technical, economic, legal, political, and institutional considerations. Prereq., TLEN 5010. Same as CSCI 4143.

College of Engineering & Applied Science | Telecommunications

TLEN-5230 (3) Spectrum Management and Policy

Studies how spectrum policy is developed and implemented. A general framework is developed for understanding telecommunications law and regulatory objectives. Course specifically analyzes international and domestic dimensions of spectrum policy. It also considers how economics, administrative processes, and innovative technologies affects management of the spectrum.

College of Engineering & Applied Science | Telecommunications

TLEN-5240 (3) Telecommunications Law and Policy

May be repeated up to 6 total credit hours. Same as LAWS 7241. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

TLEN-5245 (3) Introduction to Intellectual Property Law

Provides an overview of our nation's intellectual property laws, including patent, copyright, trademark, trade secret, and also discusses other assorted matters related to intellectual property, including licensing, competition policy issues, and remedies. Same as LAWS 6301.

College of Engineering & Applied Science Telecommunications

TLEN-5250 (2-4) Technology Law and Policy Clinic

Features technology law advocacy before administrative and legislative bodies. The mission of TLPC is: 1) to train and produce students equipped to conduct thoughtful analysis, and 2) provide unbiased assistance in the public interest concerning technology issues to regulatory entities, courts, legislatures and standard setting bodies. Recommended prereqs., LAWS 6301, 6318 or 7241. LAWS 7809 and TLEN 5250 are the same course.

College of Engineering & Applied Science Telecommunications

TLEN-5255 (3) Computer Crime

Explores legal issues that judges, legislators, prosecutors, and defense attorneys confront as they respond to recent explosions in computer-related crime. Includes the Fourth Amendment in cyberspace, the law of electronic surveillance, computer hacking and other computer crimes, encryption, online economic espionage, cyberterrorism, First Amendment in cyberspace, federal/state relations in enforcement of computer crime laws, and civil liberties online. Formerly TLEN 5535. Same as LAWS 6321.

College of Engineering & Applied Science Telecommunications

TLEN-5265 (3) Copyright

Examines state and federal laws relating to the protection of works of authorship ranging from traditional works to computer programs. Studies the 1976 Copyright Act as well as relevant earlier acts. Gives attention to state laws, such as interference with contractual relations, the right of publicity, moral right, protection of ideas, and misappropriation of trade values, that supplement federal copyright. Same as LAWS 7301. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5270 (3) Antitrust

Studies American competition policy: collaborations among competitors, including agreements on price and boycotts, definition of agreement, monopolization, vertical restraints such as resale price maintenance, and territorial confinement of dealers. Recommended prereq., TLEN 5210. Same as LAWS 7201. Offered in alternate years. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5300 (1-3) Telecommunications Theory and Applications

Examines the mathematical and physical theory of telecommunications. Deals with the fundamental concepts related to a wide range of topics including physical units, numbering systems, trigonometric functions, logarithms, indices, decibels, complex numbers, calculus, elementary probability, and power circuit analysis. May be repeated up to 3 credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

TLEN-5310 (3) Telecommunications Systems

Reviews fundamental technical concepts and terminology in telecommunications. Topics of focus include: decibels, noise analysis, transmission lines, electronic signals, radio spectrum characteristics, link budgets, AM modulation, angle modulation, digital modulation, multiplexing, sampling and digital encoding, detection, and similar physical layer concepts. Systems for analysis include CATV, cellular wireless, WLAN, satellite systems, internet networking and related voice and data networks. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

TLEN-5330 (3) Data Communications 1

Provides a comprehensive technical survey of data and computer communications including Wireless, LAN, MAN, and WAN systems and standards. Covers packet switching, internetworking, addressing, routing, transport layers, TCP/IP internet, wired and wireless LAN technologies, congestion control and flow control schemes. Prereq. or coreq., TLEN 5310. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

TLEN-5340 (3) VOIP Network Design

Focuses on VoIP network design and optimization. The emphasis is on the convergence of VoIP, PSTN and cell phone networks and signaling. Topics include voice processing as well as IP and SS7 signaling. In addition there will be a review of ISDN, DSL, Sonet, ATM, SIP and MPLS. There will be a case problem for sizing a VoIP network using silence suppression. Coreq., TLEN 5310. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

TLEN-5350 (3) Satellite Communication Systems

Aimed at a high level fundamental understanding of broadcasting, communication and navigation satellite systems. Topics include orbital mechanics, orbit selection, spacecraft subsystems, spacecraft and earth station configurations, propagation issues, link budgets, modulation and multiplexing techniques, multiple access schemes (FDMA, TDMA, CDMA), error control coding, satellite network architecture, and economic, regulatory and business issues in Geo, Meo, and Leo systems. Co-req., TLEN 5330. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science | Telecommunications

TLEN-5370 (3) IP Routing Protocols

Breaks IP routing technologies into two fundamental pieces: an in-depth study of interior and then exterior gateway protocols. Prereq., TLEN 5330. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-5380 (3) Future of Video: Technology, Policy, and Economics

Examines the issues that have been created by the shift from analog to digital technologies, the shift from narrowband/wideband systems to broadband systems, and the shift to converged networks (i.e. networks able to convey voice, data, image and video traffic on a common platform) based upon packet switching and Internet Protocol (IP) suite. Prereq., TLEN 5210. TLEN 5380 and ATLS 5380 are the same course. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

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TLEN

TLEN-5390 (3) Applied Java Programming

Provides a comprehensive overview of basic programming concepts, the Java programming language using an object-oriented approach, and the software development life cycle for students with little to no previous programming experience. Prerequisites: Restricted to Leeds School of Business or College of Engineering graduate students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-5410 (3) Network Management and Operations

Offers students a hands-on experience programatically managing network hardware and essential network services such as DHCP, DNS, ARP, FTP, Telnet, HTTP, SSH, SMTP, TFTP, and SNMP through the use of cross-platform scripting. Students with little or no programming experience will learn scripting by replicating functionality provided in common management suites such as HP OpenView, Nagios, Zennos, IBM Netview and others. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-5430 (3) Data Communications 2

Provides a detailed technical study of Internet and Internet-related protocols following a top-down approach through the protocol stack. Bit-level analysis of a large number of Internet and Internet-related protocols, including the study of classic protocol suite principles. Covers real time and near real-time data streaming, IP mobility, IPV6, and an introduction to Internet security. Prereq., TLEN 5330 or instructor consent. Prerequisites: Restricted to students with 87-180 credits (Senior) or gaduate students in the College of Engineering or Leeds School of Business only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-5440 (3) Multimedia Networking

Covers the co-evolution of traditional multimedia services (such as telephony and television) and traditional data services onto a common network infrastructure: representation and compression for speech, audio, images, and video; media transport using Real time Transport Protocol (RTP); quality of service. Prereq., TLEN 5330. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5460 (3) Telecommunication Systems Laboratory

Provides direct experience with telecommunications functions and equipment through experiments and demonstrations. Student teams learn the fundamental techniques of signal transmission and impairment measurement, voice and data switching, and systems administration, and the fundamental functions of data networking and services. Each experiment is designed to focus on some particular aspect of system management, development, or maintenance for either enterprise telecommunications customers or telecommunication service providers. Procedures require the use of actual commercial equipment, services, observation, reporting of behavior, and performance, compared to specified requirements. Student teams and laboratory periods for the semester are established during the first class lecture meeting. Prereqs., TLEN 5310 and 5330. Credit not granted for this course and CSCI 4123. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5462 (3) Advanced Telecommunications Lab

Presents advanced networking techniques through experiments with network measurement equipment, switches, routers, and management interfaces. Each experiment focuses on some particular aspect of system management, development, or maintenance. Procedures require the use of actual commercial equipment, services, observation, reporting of behavior, and performance, compared to specified requirements. Prereq., TLEN 5460. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5470 (3) Signaling Protocols

Signaling in this context is the exchange of information associated with the establishment and control of a connection. Students will gain an understanding of modern signaling protocols and differences among these protocols. Students will gain an appreciation of actually implementing signaling protocols in the Internet Protocol environment. Prereqs., TLEN 5330 and C/C++. Recommended prereq., Java programming.

College of Engineering & Applied Science Telecommunications

TLEN-5480 (3) Introduction to Optical Fiber Communications

Provides the student with a description of optical fibers, lasers, and detectors at a level that allows them to analyze and design optical fiber communication systems. Prereq., TLEN 5310. Same as ECEN 4116. Prerequisites: Restricted to Leeds School of Business or College of Engineering graduate students only.

College of Engineering & Applied Science Telecommunications

TLEN-5485 (2) Optical Circuits Laboratory

2-credit hour senior level lab. Experiments cover analog and digital information transmission on free space and guided wave optical carriers. Automated data acquisition and computer analysis of data are used to investigate transmission efficacy. Same as ECEN 4696.

College of Engineering & Applied Science Telecommunications

TLEN-5490 (3) Network Programming

Exposes students to Unix/Linux systems and network programming with an emphasis on practical programming problems and experience. Covers the unique challenges of programming distributed systems including resolving synchronization, threads, pipes, sockets, and other constructs for building TCP/IP network servers and clients.

College of Engineering & Applied Science Telecommunications

TLEN-5510 (3) Wireless and Cellular Communications

Presents in detail the technologies and architectures employed in cellular and other modern wireless systems and discusses regulatory and other industry issues. Major topics include radio technology, multiple access techniques, analog and digital cellular telephony, and personal communications systems. Prereq., TLEN 5310 or instructor consent. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5520 (3) Wireless Local Area Networks

Examines small-scale wireless networks particularly personal and local area networks. Covers licensed and unlicensed spectrum, indoor and small-scale radio propagation, modulation techniques, network topologies, ad hoc and infrastructure networks, protocol design, TCP/IP-wireless interactions, and protocol standards. Prereq., ECEN 3810 or APPM 3570 or MATH 4510. Recommended prereq., TLEN 5430. Same as ECEN 5122.

College of Engineering & Applied Science Telecommunications

TLEN-5530 (3) Applied Network Security

Examines the critical aspects of network security. a technical discussion of threats, vulnerabilities, detection, and prevention is presented. Issues addressed are cryptography, firewalls, network protocols, intrusion detection, security architecture, security policy, forensic investigation, privacy, and the law. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5540 (3) Network Security Laboratory

Applies what students have learned in computer and network security foundations in a simulated network environment. Topics to be covered include: system hardening, firewalls, intrusion detection, vulnerability assessment, and investigation. Prereqs., TLEN 5530. Recommended prereq., operating system experience. Credit not granted for this course and CSCI 4133.

College of Engineering & Applied Science Telecommunications

TLEN-5550 (3) Computer and Network Security

Studies methods to protect information, and the ability to process and move information, from theft, misuse, tampering, destruction, and unauthorized access. Introduces foundational topics of computer and network security, including security models, cryptography, and authentication protocols. Prereqs., significant experience in coding (C or C++); some experience in networks; familiarity with TCP/IP, UDP, and ICMP. Recommended prereq., CSCI 5273. Same as CSCI 6268. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5560 (3) Wireless Systems Laboratory

Serves as hands-on exploration of wireless communication systems. The course is designed to complement TLEN 5510 and TLEN 5520 by taking several subjects to greater depth. Students will work with and in some cases build radio frequency test equipment, transmitters, receivers, antennas, and wireless communication systems. Prereq., TLEN 5310. Coreq., either TLEN 5510 or 5520. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5570 (3) IP Network Design

Implement fundamentals of IP Routing Protocols and apply them directly to design based networking problems. Design scenarios will incorporate physical and logical design, financial analysis, and laboratory configuration. Prereq., TLEN 5370. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5580 (3) Energy Communication Networks

Studies the role of communication and networking in creating efficient, extensible, and resilient energy networks. Describes existing networking technologies and standards such as SCADA and IEC61850 and upcoming technology developments. Cyber security, regulatory requirements, and the industry economic framework are discussed. Provides the tools to choose and design networking technologies for the smart grid. Recommended prereq., ECEN 5007. Co-reqs., TLEN 5310 and 5330. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5600 (1) Telecommunications Seminar

Provides a series of weekly lectures with questions and discussion. Many of the speakers are nationally known experts in telecommunications. Fall and spring seminars are for 1 credit hour each, and attendance is required. May be repeated up to 4 total credit hours. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5700 (2) Research Methods

Develop basic concepts and methods for pursuing quantitative and qualitative research. Students will develop a research proposal that will be completed in TLEN 5710 or as a Master's Thesis. Writing skills test required. Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

College of Engineering & Applied Science Telecommunications

TLEN-5710 (1) Capstone

Complete Capstone research project initiated in TLEN 5700, Research Methods. Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5750 (3) Research Techniques in Engineering Management

Same as EMEN 5900.

College of Engineering & Applied Science Telecommunications

TLEN-5830 (1-6) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5831 (3) Special Topics

Prerequisites: Restricted to Graduate Students only.

College of Engineering & Applied Science Telecommunications

TLEN-5920 (1-6) Independent Study

Prerequisites: Restricted to students with 87-180 credits (Senior) or graduate students in the College of Engineering or Leeds School of Business only.

[College of Engineering & Applied Science](#) | [Telecommunications](#)

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Courses

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Subject **Number**

TLEN

TLEN-6940 (1) Candidate for Degree

Prerequisites: Restricted to Leeds School of Business or College of Engineering graduate students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-6950 (1-6) Master's Thesis

Prerequisites: Restricted to Leeds School of Business or College of Engineering graduate students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-6960 (1-4) Telecommunications Project

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-7000 (1-6) Current Topics in Telecommunications

Studies research topics of current interest in telecommunication and networking. May be repeated up to 8 total credit hours.

Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

TLEN-8990 (1-10) Doctoral Dissertation

Investigates specialized topic or field in the area of telecommunications. Approved and supervised by faculty members. Prerequisites: Restricted to Graduate Students only.

[College of Engineering & Applied Science](#) [Telecommunications](#)

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Courses

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Subject **Number**

TMUS

TMUS-4403 (1-3) Special Studies

Offers advanced studies in specific areas or special projects in selected areas. For undergraduate majors only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Restricted to College of Music majors only.

Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Thesis Music](#)

TMUS-4493 (1-3) Special Studies

Offers advanced studies in specific areas or special projects in selected areas. For undergraduate majors only. See current online Schedule Planner for specific course number. Numbered TMUS 4403--4493. May be repeated for additional credit. Restricted to College of Music majors only. Prerequisites: Restricted to College of Music undergraduate students only.

[College of Music](#) [Thesis Music](#)

TMUS-5504 (1-3) Special Studies

Offers graduate studies in specific areas or special projects in selected areas. For master's degree students only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Prerequisites: Restricted to Graduate Students only.

[College of Music](#) [Thesis Music](#)

TMUS-5594 (1-3) Special Study-Omnibus

Offers graduate studies in specific areas or special projects in selected areas. For master's degree students only. See current online Schedule Planner for specific course number. Numbered TMUS 5504--5594. May be repeated for additional credit.

College of Music | Thesis Music

TMUS-5605 (1-3) Special Studies

Offers advanced graduate studies in specific areas or special projects in selected areas. For doctoral degree students only. See current online Schedule Planner for specific course number. May be repeated for additional credit. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-5695 (1-3) Special Study-Omnibus

Offers advanced graduate studies in specific areas or special projects in selected areas. For doctoral degree students only. See current online Schedule Planner for specific course number. Numbered TMUS 5605--5695. May be repeated for additional credit.

College of Music | Thesis Music

TMUS-6947 (1) Candidate for Master of Music

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-6956 (2) Master's Thesis

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-6957 (2) Master's Thesis 2

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8019 (1) Precandidate for Doctor of Musical Arts

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8029 (1) Candidate for Doctor of Musical Arts

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8119 (1-4) Composition Project 1

Students compose works in a variety of genres, totaling at least 30 minutes of music. Students meet weekly with a composition teacher to discuss and develop their works. Restricted to DMA composition students. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8129 (1-4) Composition Project 2

Students compose works in a variety of genres, totaling at least 30 minutes of music. Students meet weekly with a composition teacher to discuss and develop their works. Prereq., TMUS 8119. Restricted to DMA composition students. May be repeated up to 4 total credit hours. Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8219 (3) Dissertation Project 1 (Solo Recital, Choral Concert, Composition)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8229 (3) Dissertation Project 2 (Solo Recital, Choral Concert, Composition, Vocal Pedagogy)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8239 (3) Diss Proj 3 (Chamber Music Recital, Vocal Pedagogy Project, Choral Project, Composition Recital)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8249 (3) Diss Proj 4 (Chamber Music Recital, Choral Project, Composition Recital, Wind/Percussion Practicum).

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8259 (3) Dissertation Project 5 (Research Lecture)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8269 (3) Dissertation Project 6 (Research Lecture)

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8279 (1-3) Performance Research Document 1

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8289 (1) Performance Research Document 2

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8299 (1) Performance Research Document 3

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8309 (1) Performance Research Document 4

Prerequisites: Restricted to Graduate Students only.

College of Music | Thesis Music

TMUS-8319 (3) Repertoire Project

Prerequisites: Restricted to Graduate Students only.

[College of Music](#) | [Thesis Music](#)

TMUS-8329 (2-6) Document/Pedagogy Project

Prerequisites: Restricted to Graduate Students only.

[College of Music](#) | [Thesis Music](#)

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TMUS

TMUS-8339 (3-6) Major Composition

Prerequisites: Restricted to Graduate Students only.

[College of Music](#) | [Thesis Music](#)

TMUS-8998 (1-10) PhD Thesis

Prerequisites: Restricted to Graduate Students only.

[College of Music](#) | [Thesis Music](#)



Courses

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Subject Number

WMST

WMST-1006 (3) The Social Construction of Sexuality

Same as SOCY 1006. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#) [Womens Studies](#) [Sociology](#)

WMST-1016 (3) Sex, Gender, and Society 1

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, reviews major theories of gender stratification. Same as SOCY 1016. Approved for GT-SS3. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Womens Studies](#) [Sociology](#)

WMST-1260 (3) Introduction to Women's Literature

Same as ENGL 1260. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#) [Womens Studies](#) [English](#)

WMST-2000 (3) Introduction to Feminist Studies

Introduces students to the field of Women & Gender Studies. Examines gender issues in the United States from interdisciplinary, multicultural, and feminist perspectives. Covers such topics as sexuality, beauty ideals, women's health, violence against women, work, the economy, peace and war, and the environment. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies

WMST-2020 (3) Femininities, Masculinities, Alternatives

Examines contemporary experiences of people around the world as they negotiate dominant and subversive understandings of gendered identities. Focuses on the ways in which the material and discursive circumstances of people's lives shape their opportunities for resistance and creative construction. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies

WMST-2030 (3) Introduction to Lesbian, Gay, Bisexual, and Transgender Studies

Same as LGBT 2000. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies LGBT Studies

WMST-2050 (3) Gender, Sexuality, and Popular Culture

Explores diverse cultural forms such as film, popular fiction and non-fiction, music videos, public art, websites, blogs and zines which are shaped by, and in turn shape popular understandings of gender at the intersections of race, class, ability, religion, nation, and imperialism. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies

WMST-2100 (3) Women in Ancient Greece

Approved for arts and sciences core curriculum: human diversity. Same as CLAS 2100.

College of Arts & Sciences Womens Studies Classics

WMST-2110 (3) Women in Ancient Rome

Same as CLAS 2110. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies Classics

WMST-2200 (3) Women, Literature, and the Arts

Introduces the contributions of women to literature and the performing arts from a historical and cross-cultural perspective. Emphasizes the cultural contexts in which artworks are created, as well as representations of gender and sexuality. Stresses issues of structure, content, and style, along with the acquisition of basic techniques of literary and arts criticism. Prereq., WMST 2000. Approved for arts and sciences core curriculum: human diversity or literature and the arts.

College of Arts & Sciences Womens Studies

WMST-2290 (3) Philosophy and Women

Same as PHIL 2290. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies Philosophy

WMST-2400 (3) Women of Color and Activism

Studies the history of social activism in the United States by women of color, with an emphasis on modes of social activism, issues that have organized specific communities of color, issues that have crossed ethnic/racial boundaries, and the interaction of women from different ethnic/racial groups, including women of color and white women. Recommended prereq., WMST 2000 or 2600. Same as HIST 2636. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Womens Studies

WMST-2600 (3) Gender, Race, and Class in a Global Context

Examines the positionality of women in terms of gender, race, ethnicity, class, and power relations in a global context. Approved for GT-SS3. Approved for arts and sciences core curriculum: contemporary societies.

College of Arts & Sciences Womens Studies

WMST-2700 (3) Psychology of Contemporary American Women

Surveys psychological theory and research concerning contemporary American women. Deals with such issues as masculine bias in American culture, sex difference in cognitive functioning and personality, psychological conflict for women between career and home, and, finally, specific areas pertaining to women's mental health. Prereq., WMST 2000 or PSYC 1001. Same as PSYC 2700. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies

WMST-2800 (3) Women and Religion

Same as RLST 2800. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies | Religious Studies

WMST-3004 (3) Women in Education

Same as HONR 3004. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences | Womens Studies | Honors

WMST-3012 (3) Women and Development

Restricted to students with 57-180 credits (Junior or Senior) Womens Studies (WMST) majors only. Same as SOCY 3012. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Womens Studies (WMST) majors only.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3016 (3) Marriage and the Family in the United States

Restricted to junior/senior WMST majors. Approved for arts and sciences core curriculum: United States context. Same as SOCY 3016.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3020 (3) Methods of Inquiry in Gender, Race, Class, and Sexuality

Examines various research methods and approaches in women's and gender studies. Students will gain practical experience to be able to write a proposal for a significant research project, informed by course readings and discussions. Prereqs., WMST 2000, 2600. Recommended prereqs., WMST 2200 or 2400.

College of Arts & Sciences | Womens Studies

WMST-3044 (3) Race, Class, Gender, and Crime

Same as SOCY 3044.

College of Arts & Sciences | Womens Studies | Sociology

WMST-3046 (3) Topics in Sex and Gender

Same as SOCY 3046.

College of Arts & Sciences Womens Studies Sociology

WMST-3090 (3) Critical Thinking in Feminist Studies

Analyzes the concepts, ideas, arguments, and assumptions that inform major texts in feminist theory through close reading, class discussion, and writing papers. Emphasizes developing reading and writing skills to interpret theoretical arguments. Prereqs., WMST 2000 and junior or senior standing. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Womens Studies

WMST-3100 (3) Feminist Theories

Explores a variety of alternative systematic accounts of, and explanations for, gender inequities. Social norms of both masculinity and femininity are analyzed in relation to other axes of inequality such as class, sexuality, race/ethnicity, neocolonialism, and the domination of nonhuman nature. Prereq., WMST 2000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Womens Studies

WMST-3110 (3) Feminist Practical Ethics

Explores a variety of personal and public policy issues in light of basic feminist commitment to opposing women's subordination. Provides students not only with a deeper understanding of the specific issues discussed but also with a sense of the ways in which a principled commitment to feminism may influence and be influenced by prevailing interpretations of contemporary ideals and values (such as freedom, equality, and community). Provides an opportunity to develop skills of critical analysis useful in a wide range of contexts. Prereq., WMST 2000 or 2290, and junior or senior standing. Same as PHIL 3110. Approved for arts and sciences core curriculum: ideals and values. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Womens Studies

WMST-3135 (3) Chicana Feminisms and Knowledges

Provides insight into the present socioeconomic condition of Chicanas and the concept of feminismo through interdisciplinary study of history, sociology, literary images, and film portrayals. Prereq., ETHN 2001 or 2536 or equivalent. Same as ETHN 3136. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Womens Studies Chicano Studies



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WMST

WMST-3200 (3) Religion and Feminist Thought

Examines the origin of patriarchal culture in the theology and practices of Judaism and Christianity. Explores attitudes and beliefs concerning women as Judeo-Christian culture impacts gender roles and gender stratification through reading and discussion. Women's religious experience is studied from the perspective of feminist interpretations of religiosity. Prereq., WMST 2000 or WMST/RLST 2800. WMST 3200 and JWST 3200 are the same course.

[College of Arts & Sciences](#)
[Womens Studies](#)

WMST-3208 (3) Women in Nordic Society: Modern States of Welfare

Examines the role and status of women and marginalized social classes in the Nordic countries, whose societies have been heralded as egalitarian models since the twentieth century. Texts include a variety of media, from literature to sociological works to artifacts of political and popular culture. Same as SCAN 3208. Approved for arts and sciences core curriculum: human diversity.

[College of Arts & Sciences](#)
[Womens Studies](#)
[Nordic \(Formerly Scandinavian\)](#)

WMST-3210 (3) American Indian Women

Explores the experiences, perspectives, and status of American Indian women in historical and contemporary contexts. Examines representations of Indigenous women in mainstream culture. Emphasizes the agency of American Indian women-their persistence, creativity, and activism, especially in maintaining Indigenous traditions. Prereq., WMST 2000, 2600 or ETHN 2001 or 2003. Same as ETHN 3213. Approved for arts and sciences core curriculum: human diversity. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

[College of Arts & Sciences](#)
[Womens Studies](#)

WMST-3220 (3) Women in Islam

Examines the historical and contemporary relation between women, gender and Islamic cultures in different parts of the world. We will consider the role and rights of women in Islam, historical and literary representations of Muslim women, and the historically changing constructions of gender and sexuality in Muslim societies. In addition, we will critically explore the construction of Muslim women in western discourses, including liberal feminist discourse, and ask whether the representation of Muslim women in these discourses achieves or undermines ends that we might consider "Feminist". In attending to the wide range of Muslim women's lived experiences in Islamic communities and cultures, as well as the self-representations of Muslim women themselves, our readings will urge us to reexamine our presumptions about piety, secularism, modernity and feminism. Prereq., WMST 2000, 2050 or 2600.

College of Arts & Sciences Womens Studies

WMST-3267 (3) Women Writers

Same as ENGL 3267. Prerequisites: Restricted to students with 27-180 credits (Sophomores, Juniors or Seniors).

College of Arts & Sciences Womens Studies English

WMST-3300 (3) Gender, Sexuality and U.S. Law

Contemporary and historic overview of U.S. courts' treatment of sex and gender. Using the case method, examines policy issues including, but not limited to: same sex marriage and civil unions; privacy; affirmative action; abortion; reproductive technologies; and discrimination based on sex and sexual orientation in education and in the workplace. Prereq., WMST 2000 or PSCI 1101. Same as PSCI 3301. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies Political Science

WMST-3302 (3) Facilitating Peaceful Community Change

Students gain knowledge and skills that enable them to become effective facilitators of community goals. Focuses on understanding the processes of community building with a multicultural emphasis. Students are encouraged to apply concepts to life experiences and to examine themselves as potential change agents. Theory and summer experience are integrated. Same as INVS 3302.

College of Arts & Sciences Womens Studies

WMST-3311 (3) Gender and U.S. Politics: Protest, Polls and Policy

Provides an overview and critical examination of women as political actors within the United States. Students will examine the gendered components of citizenship, election, political office, and public policy. Furthermore, students will explore the ways in which gender intersects with class, race, ethnicity, sexual orientation, and other identities in U.S. politics. Same as PSCI 3311.

College of Arts & Sciences Womens Studies

WMST-3314 (3) Violence Against Women and Girls

Focuses on aspects of the victimization of women and girls that are "Gendered" - namely, sexual abuse and intimate partner abuse. Also explores the importance of race, class, and sexuality in gendered violence. Prereq., WMST 2000. Same as SOCY 3314.

College of Arts & Sciences | Womens Studies

WMST-3400 (3) Gender, Personality, and Culture

Explores the relationship among gender, culture, and personality. Brings together the disciplines of psychology and sociology in the study of gender and personality formation through investigation of psychoanalytic theory and the social environment. Prereqs., WMST 2000 or 2700, and junior or senior standing.

College of Arts & Sciences | Womens Studies

WMST-3500 (3) Global Gender Issues

Introduces global gender issues, such as the gendered division of labor in the global economy, migration, women's human rights, environmental issues, gender violence in war, women in the military, nationalism and feminism, and the representation of the Third World in the United States. Offers students the opportunity to broaden their perspectives beyond the borders of the United States. Prereq., WMST 2000, 2050 or 2600. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences | Womens Studies

WMST-3505 (3) Historical and Contemporary Issues of African American Women

Explores the social, economic, political, historical, and cultural role of African American women from an interdisciplinary perspective. Special emphasis is placed on African American women's rich oral and literary tradition. Prereq., WMST 2000 or ETHN 2001 or 2002 or equivalent. Same as ETHN 3502.

College of Arts & Sciences | Womens Studies

WMST-3600 (3) Latinas: History, Culture, and Social Activism

Drawing from work produced by and about Latinas, discusses the social and cultural construction of race and ethnicity, the function of nationalism, the politics of migration and citizenship, Latina literary production and theory, historiographical trends, Latina feminist theory, activism and the academy, and Latina/o political organizing. Prereq., WMST 2000 or 2600.

College of Arts & Sciences | Womens Studies

WMST-3601 (3) German Women Writers

Taught in English. Same as GRMN 3601. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies German

WMST-3650 (3) Women and Politics in Latin America

Examines ways Latin American women have engaged in politics and their participation in social movements, war, peace processes and elections. Focuses on why women "Do politics" in certain ways, the role of the State in women's politics, the (dis)advantages of various political strategies, and how political, economic and social changes have affected women's political opportunities and interests. Prereq., WMST 2000 or instructor consent. Recommended prereqs., WMST 2400, 2600, 3600 or 3730. Restricted to juniors/seniors. Same as PSCI 3052. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Womens Studies Political Science

WMST-3670 (3) Immigrant Women in the Global Economy

Critical examination of immigrant women's participation in the global economy. Focuses on the relationship between larger social forces and the role of women in migration and the labor force. Emphasis on Latinas and Asian immigrant women. Restricted to juniors/seniors or instructor consent. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies Ethnic Studies

WMST-3672 (3) Gender and Global Economy

Same as GEOG 3672. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies Geography

WMST-3700 (3) Topics in U.S. Gender and Sexuality Studies

Examines selected topics in women, gender, and sexuality in the US context. May be repeated up to 6 total credit hours for different topics. Prereq., WMST 2000 or 2600. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

College of Arts & Sciences Womens Studies

WMST-3710 (3) Topics in Global Gender and Sexuality Studies

Content varies by semester and reflects relevant issues in global feminist scholarship. May be repeated up to 6 total credit hours.

Prereq., WMST 2000 or 2600. Restricted to sophomores/juniors/seniors.

College of Arts & Sciences Womens Studies

WMST-3730 (3) Third World Women and the Politics of International Development

Examines the history, characteristics, problems, status and role of Third World women in development itself. Includes the interrelationships between development and population growth, transnational economics, migration, education, agriculture, health, urbanization, development policy and planning, and their impact on women and men in urban and rural areas in Africa, Latin America, the Caribbean, Asia, and Melanesia. Prereq., WMST 2000 or 2600. Restricted to juniors/seniors.

College of Arts & Sciences Womens Studies

WMST-3750 (3) Women in Buddhism

Explores diverse representations of the female in Buddhist literature and the social realities of actual women in Asian historical contexts. Through case studies that traverse Buddhist Asia, we delve into monastic views of the female body, philosophical analyses of the emptiness of gender, idealized images of the feminine in Buddhist tantra, and contemporary issues such as the nun's revival moment. Same as RLST 3750.

College of Arts & Sciences Womens Studies Religious Studies

WMST-3800 (3) Advanced Writing in Feminist Studies

Offers expository writing and training in analytical and descriptive skills, structures or argument, critical thinking, the rhetoric of persuasion, and the development of a personal voice. Readings and papers focus on basic issues in gender studies. Prereq., WMST 2000. Restricted to juniors/seniors. Approved for arts and sciences core curriculum: written communication.

College of Arts & Sciences Womens Studies

WMST-3900 (3) Asian American Women: Historical and Contemporary Issues

Drawing from work produced by and about Asian American women, examines historical and contemporary issues including representation of Asian American women, identity politics, feminism, coalition building, and activism for social change. Prereq., WMST 2000 or 2600, or ETHN 1025, 2001, or 2004. Restricted to sophomores/juniors/seniors. Same as ETHN 3905. Approved for arts and sciences core curriculum: United States context.

College of Arts & Sciences Womens Studies

WMST-3919 (1-3) Service Learning Practicum

Under faculty supervision, students participate in a service learning project correlated with the academic subject. May be repeated up to 6 total credit hours.

[College of Arts & Sciences](#) [Womens Studies](#) [English](#)

WMST-3930 (1-6) Women and Gender Studies Internship

Provides field experience in local and national government and non-governmental agencies focusing on women and gender-related issues. Supervision by approved field instructors. Students must relate their academic experience to their field work experience through a portfolio and a final paper. Prereq., 6 hours of course work in Women and Gender Studies and 30 cumulative credit hours. Prerequisites: Restricted to students with 27-180 credits (Sophomore, Junior or Senior) only.

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WMST

WMST-3940 (1) Practicum in Women and Gender Studies

Enriches the academic experience of majors and minors within the Women and Gender Studies program. This course usually will combine readings from books with lectures and discussions, community outreach and in-house publications spanning the interdisciplinary focus of the program. May be repeated up to 4 total credit hours. Restricted to WMST majors or minors.

[College of Arts & Sciences](#) [Womens Studies](#)

WMST-4000 (3) Advanced Topics in Gender and Sexuality Studies

Provides an advanced interdisciplinary course organized around a specific topic, problem, or issue relating to gender and sexuality. Course work includes discussion, reading, and written projects. May be repeated up to 6 total credit hours for different topics. Restricted to students with 57-180 credits (Junior or Senior). Prereq., WMST 2000. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

[College of Arts & Sciences](#) [Womens Studies](#)

WMST-4010 (3) Gender, Genocide, and Mass Trauma

Studies the persistence of genocide and the effects of mass trauma on women and girls. Within the framework of political and social catastrophe, the course examines cataclysmic world events and the traumatic consequences for women of religious persecution, colonialism, slavery, and the genocides of the twentieth and twenty first centuries. Prereq., SOCY 1016 or WMST 2000 or SOCY 3314. SOCY 4000 and WMST 4010 are the same course.

[College of Arts & Sciences](#) [Womens Studies](#) [Sociology](#)

WMST-4016 (3) Sex, Gender, and Society 2

Studies status and power differences between the sexes at individual, group, and societal levels. Examines empirically established sex differences, and reviews biological, psychological, and sociological explanations for gender differences. Prereqs., SOCY 1016 or WMST 2000. Restricted to sophomores/juniors/ seniors. Same as SOCY 4016.

College of Arts & Sciences Womens Studies Sociology

WMST-4041 (3) Women and Theatre of the 20th and 21st Centuries

Same as THTR 4041.

College of Arts & Sciences Womens Studies Theatre

WMST-4063 (3) Women in Victorian England

Same as HIST 4063.

College of Arts & Sciences Womens Studies History

WMST-4073 (3) Performing Voices of Women

Same as THTR 4073.

College of Arts & Sciences Womens Studies Theatre

WMST-4086 (3) Family and Society

Restricted to junior/senior WMST majors. Same as SOCY 4086.

College of Arts & Sciences Womens Studies Sociology

WMST-4277 (3) Topics in Women's Literature

Same as ENGL 4277. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Womens Studies

WMST-4287 (3) Studies in Lesbian, Gay, Bisexual, and Transgender Literature

Examines selected British, American, and French literary representations of lesbian and gay identity from the early 16th century to the present. Discusses the changing status of homosexuality as a literary and cultural topos, including how same-sex desire is defined, and the rhetorical and ideological difficulties involved in its representation. Specific topics vary each semester. May be repeated up to 9 total credit hours. Same as ENGL/LGBT 4287. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Womens Studies

WMST-4300 (3) Sex, Power, Politics: International Perspectives

Studies the commercial trade of sexual labor in the global economy, examining theories and assumptions about sexual-economic exchanges and gendered and racialized relations of power in the sex trade. Emphasizes prostitution. Recommended prereq., WMST 2600 or 3100. Restricted to juniors and seniors. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

College of Arts & Sciences Womens Studies

WMST-4301 (3) Gender, Race and Immigration in Germany and Europe

Introduces students to debates surrounding migration and race in contemporary Germany. Emphasis on reading texts in context using tools of cultural studies, integrating analyses of gender, race, nation, and sexuality. Texts may include film, literature, television, magazine images, etc. Topics include questioning "multiculturalism," self-representation, integration, Islam, citizenship, violence, public space, youth culture, racism and nationalism. Same as GRMN 4301/5301. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies German

WMST-4331 (3) Gender, Race, Class, and Sexuality in Popular Culture

Studies the construction, interconnections, and replications of gender, race, class, and sexuality in popular culture and how these constructs become cultural norms and mores. Uses critical methods with a focus on producing responsible viewers and readers. Same as JOUR 4331.

College of Arts & Sciences Womens Studies

WMST-4471 (3) Women in 20th Century Russian Culture

Same as RUSS 4471 and GSSL 5471. Approved for arts and sciences core curriculum: human diversity.

College of Arts & Sciences Womens Studies Russian

WMST-4500 (3) Gender Politics and Global Activism

Addresses the problems and challenges women face around the world and the ways in which women have mobilized to address them. Explores political activism at the local, national, regional, and global levels. Focuses on different forms of activism, including strategies aimed at working with and within governmental institutions, as well as outside and against them. Recommended prereq., WMST 2000 or WMST 2600.

College of Arts & Sciences Womens Studies

WMST-4614 (3) Women and Society in Industrial Europe

Same as HIST 4614.

College of Arts & Sciences Womens Studies History

WMST-4616 (3) History of Women in the United States to 1890

Same as HIST 4616.

College of Arts & Sciences Womens Studies History

WMST-4619 (3) Women in Asian History

Same as HIST 4619.

College of Arts & Sciences Womens Studies History

WMST-4626 (3) History of Women in the United States since 1890

Same as HIST 4626.

College of Arts & Sciences Womens Studies History

WMST-4636 (3) Lesbian and Gay History: Culture and Politics and Social Change in the U.S.

Considers current theoretical approaches to the history of sexuality and traces the changing meaning of same-sex sexuality in the U.S. through investigation of lesbian and gay identity formation, community development, politics, and queer cultural resistance. Prereqs., WMST 2000 and 2600, and junior or senior standing. Same as HIST 4636/5636. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).

WMST-4640 (3) Women, Gender and War

Same as HIST 4640.

WMST-4769 (3) Gender Studies in Early Modern Visual Culture

Same as ARTH 4769. Approved for arts and sciences core curriculum: human diversity.

WMST-4800 (3) Senior Colloquium in Feminist Studies

Provides students with the opportunity to actively reflect on their education and to complete a research project that incorporates an interdisciplinary and feminist approach to the study of gender, class, race, ethnicity, and sexuality. Offered each spring. Prerequisites: Restricted to students with 87-180 credits (Senior, Fifth Year Senior) Womens Studies (WMST) majors only.

WMST-4840 (1-6) Independent Study

May be repeated up to 7 total credit hours.

WMST-4950 (3) Honors Research

For qualified WMST majors working on the research phase of departmental honors. Prereq., junior/senior standing and 3.30 overall GPA. Prerequisites: Restricted to students with 57-180 credits (Juniors or Seniors).



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WMST

WMST-4999 (1-3) Senior Honors Thesis

Qualified Women and Gender Studies majors may write an honors thesis, an in-depth research paper, on a topic of choice. Thesis hours available to majors only after successfully completing the research phase.

[College of Arts & Sciences](#) [Womens Studies](#)

WMST-6090 (3) Feminist Theories

Explores how feminist theorists have understood gender and how it interrelates to our understandings of race, ethnicity, sexuality, embodiment and knowledge. Meets the requirements for the WGST certificate.

[College of Arts & Sciences](#) [Womens Studies](#)

WMST-6190 (3) Feminist Methodology

Explores feminist methodology across a range of disciplines. Themes include experience and interpretation, the social position of the researcher, language and argument structure, knowledge and power, bias and objectivity, and the ethics and politics of research. Meets the requirements for the WGST certificate. Prerequisites: Restricted to Graduate Students only.

[College of Arts & Sciences](#) [Womens Studies](#)

WMST-6290 (3) Special Topics in Gender and Sexuality Studies

Offers interdisciplinary feminist perspectives on different special topics such as gender and war, gender and globalization, women's social movements, gender and citizenship, gender and collective memory, and cultural representations of gender and sexuality. May be

repeated up to 6 total credit hours. Meets the requirements for the WGST certificate. Prerequisites: Restricted to Graduate Students only.

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Subject **Number**

WRTG

WRTG-1100 (4) Extended First-Year Writing and Rhetoric

Extended version of WRTG 1150 that carries an additional hour of credit and is intended for students desiring more preparation and practice in college writing. Meets the same goals as WRTG 1150. Features one extra hour of small group work out of class. Focuses on critical analysis, argument, inquiry, and information literacy. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 8 total credit hours. Approved for GT-C01 and GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Program for Writing & Rhetoric](#)

WRTG-1150 (3) First-Year Writing and Rhetoric

Rhetorically informed introduction to college writing. Focuses on critical analysis, argument, inquiry, and information literacy. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 6 total credit hours. Approved for GT-C01 and GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Program for Writing & Rhetoric](#)

WRTG-1250 (3) Advanced First-Year Writing and Rhetoric

Advanced version of WRTG 1150 intended for more experienced writers, this course meets the same goals as WRTG 1150 but at a more challenging level. Taught as a writing workshop, the course places a premium on invention, drafting, and thoughtful revision. For placement criteria, see the arts and sciences advising office. May be repeated up to 6 total credit hours. Approved for GT-C02. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

[College of Arts & Sciences](#) [Program for Writing & Rhetoric](#)

WRTG-1840 (1-3) Independent Study in Writing

May be repeated up to 8 total credit hours.

College of Arts & Sciences Program for Writing & Rhetoric

WRTG-2020 (3) Introduction to Creative Nonfiction

Explores from both the reader's and writer's perspectives the forms of creative nonfiction, including personal essay and memoir. Students will read and write extensively within this genre, develop skill in revision and peer critique, and learn how to submit work for publication. Does not fulfill core requirements. Prereq., WRTG 1150 or equivalent (completion of lower-division writing requirement).

College of Arts & Sciences Program for Writing & Rhetoric

WRTG-2090 (3) Electives in Writing

Explores a variety of academic and professional writing genres, ranging from research to technical writing, in intensive workshops. Students read and write extensively across genres. Check with program for semester offerings. May be repeated up to 6 total credit hours if the topics are different. Designed for self-motivated students in all majors. Does not fulfill core requirements. Prereq., WRTG 1150 or equivalent.

College of Arts & Sciences Program for Writing & Rhetoric

WRTG-3007 (3) Writing in the Visual Arts

Enables students in the arts to improve their writing skills through organization, presentation, critique, and revision. Writing assignments include formal writing (analysis and argument), informal writing, and grant proposals. Approved for GT-C03. Approved for arts and sciences core curriculum: upper-division written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Art History (AAAH), Film Studies Concurrent Degree (C-FILM), Film (FILM or FMST), Studio Arts (AASA or AASF), Theatre (THTR or TBFA), or Dance (DNCE or DBFA) majors only.

College of Arts & Sciences Program for Writing & Rhetoric

WRTG-3020 (3) Topics in Writing

Through sustained inquiry into a selected topic or issue, students will practice advanced forms of academic writing. The course emphasizes analysis, criticism, and argument. Taught as a writing workshop, the course places a premium on substantive, thoughtful revision. May be repeated up to 6 total credit hours. Same as NRLN 3020. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Arts and Sciences students only.

College of Arts & Sciences Program for Writing & Rhetoric

WRTG-3030 (3) Writing on Science and Society

Through selected reading and writing assignments, students consider ethical and social ramifications of science policy and practice. Focuses on critical thinking, analytical writing, and oral presentation. Taught as a writing workshop, the course addresses communication with professional and non-technical audiences. May be repeated up to 6 total credit hours. Approved for GT-C03. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits Engineering, MCDB, EBIO, GEOL, ASTR, IPHY, PHYS, ENVS, MATH, ECON, BCHM, CHEM or PSYC majors only.

[College of Arts & Sciences](#) [Program for Writing & Rhetoric](#)

WRTG-3035 (3) Technical Communication and Design

Rhetorically informed introduction to technical writing that hones communication skills in the context of technical design activities. Treats design as a collaborative, user-oriented, problem-based activity, and technical communication as a rhetorically informed and persuasive design art. Taught as a writing workshop emphasizing critical thinking, revision, and oral presentation skills. Focuses on client-driven design projects and effective communication with multiple stakeholders. May be repeated up to 6 total credit hours. Approved for GT-C03. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) College of Engineering, MCDB, EBIO, GEOL, ASTR, IPHY, ENVS, MATH, ECON, BCHM, CHEM, PHYS, ENVD, PLAN, DSGN or ARCH majors only.

[College of Arts & Sciences](#) [Program for Writing & Rhetoric](#)

WRTG-3040 (3) Writing on Business and Society

Through selected reading and writing assignments, students examine ethical and social issues in the context of business decision-making processes. Focuses on critical thinking, analytical writing, and oral presentation. Taught as a writing workshop, the course emphasizes effective communication with professional and non-technical audiences. May be repeated up to 6 total credit hours. Approved for arts and sciences core curriculum: written communication. Prerequisites: Restricted to students with 57-180 credits (Junior or Senior) Leeds School of Business (BUSN), Economics (ECON), International Affairs (IAFS) or Spanish (SPPR) majors only.

[College of Arts & Sciences](#) [Program for Writing & Rhetoric](#)

WRTG-3090 (1-3) Open Topics in Writing: Advanced

Advanced topics course providing intensive, specialized writing instruction in selected topics. Check with the program for semester offerings. May be repeated up to 6 total credit hours if the topics are different. Does not fulfill core requirements. Prereqs., WRTG 3007, 3020, or 3030, or 3035, or 3040, or instructor consent required.

[College of Arts & Sciences](#) [Program for Writing & Rhetoric](#)

WRTG-3840 (1-3) Independent Study

May be repeated up to 6 total credit hours.

WRTG-5050 (3) Graduate Studies in Writing and Rhetoric

Special topics and methods course in composition theory, research, and pedagogy. Topics vary by semester. May be repeated up to 9 total credit hours. Prereq., instructor consent. Prerequisites: Restricted to Graduate Students only.

WRTG-5840 (1-3) Independent Study-Writing & Rhetoric

Independent study. May be repeated up to 6 total credit hours. Prereqs., graduate standing and instructor consent. Prerequisites: Restricted to Graduate Students only.



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YIDD

YIDD-1010 (4) Beginning Yiddish 1

Introduces students to speaking, listening, reading, and writing skills in the historic language of Ashkenazic Jewry. Uses grammar as point of departure for development of oral skills.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Yiddish](#)

YIDD-1020 (4) Beginning Yiddish 2

Continuation of YIDD 1010. Prereq., YIDD 1010 (min. grade C-) or placement.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Yiddish](#)

YIDD-2010 (4) Intermediate Yiddish 1

Review and continuation of skills begun in the first year: reading, writing, speaking, and oral comprehension. Provides an intensive introduction to cultural and literary texts of central and eastern European Jewish culture. Prereq., YIDD 1020 (min. grade C-) or placement.

[College of Arts & Sciences](#) [Germanic & Slavic Languages & Literature](#) [Yiddish](#)