This is FR to LAT of the Course Description section of the 2006-2008 Undergraduate Catalog for the University of Minnesota, Twin Cities campus.
Course Descriptions

FR 5153. Forest and Wetland Hydrology. (3 cr. Prereq.–[Basic hydrology course, [upper div or grad student] or #]) Current topics in forest/wetland hydrology. Hydrologic role of forests, wetlands, riparian systems in snowfall/rainfall regimes. How activities such as deforestation, wetland drainage, and stream channel alterations, affect hydrologic response of watersheds. Runoff/streamflow response from undisturbed/alterned forest/wetland watersheds. Problem-solving exercises.

FR 5161. Northern Forest Field Course. (2 cr; A-F only. Prereq.–#) Field identification of common trees, shrubs, and nonwoody vascular plants. Plant communities, site location, and control of fire, wind, insect infestation, browsing, and other disturbances in forests. Disturbance regimes of boreal, northern hardwood, and other major forest types of Northern Minnesota. Influence of disturbance on wildlife habitat, urban/wildland interfaces, forest management, and stand/landscape dynamics. Guest speakers on fire organization, training, and operations. Two-day field trip.

FR 5203. Forest Fire and Disturbance Ecology. (3 cr; A-F only. Prereq.–San or grad student or #) Introduction to landscape ecology at different scales in time/space. Development/implications of broad-scale patterns of ecological phenomena, role of disturbance in ecosystems. Characteristic spatial/temporal scales, ecological events. Principle of landscape ecology as framework for landscape research, analysis, conservation, and management.


FR 5228. Advanced Assessment and Modeling. (3 cr; A-F only. Prereq.–San or grad student or #) Application of recently developed mathematics, computer science, and statistics methodologies to natural resource functioning, management, and use problems. Specific topics, software, and methodologies vary.


FR 5264. Advanced Forest Management Planning. (3 cr. Prereq.–San or #) Applied models for forest planning to integrate forest resource conditions/uses, stand-level management, forest cover/landscape-level planning. Regional timber supply analysis. Optimization models and heuristic techniques as tools. Integrating sustainable timber production with desirable future conditions and spatial structure for biodiversity. Problems, case studies involving recent large-scale applications.

FR 5411. Managing Forest Ecosystems: Silviculture. (3 cr. Prereq.–San or grad student or #) Management of forest ecosystems for sustaining ecological integrity, soil productivity, water quality, wildlife habitat, biological diversity, commodity production in landscape context. Silvics, forest dynamics, disturbances, regeneration, restoration, silvicultural systems. Digital cartographic/cartographic applications of management choices. Weekend field trip.


FR 5421. Timber Harvesting and Road Planning. (2 cr. FR 5421. Prereq.–San or #) Forest operations. Terminology, engineering, equipment/harvesting system options, productivity/costs. Relationship to forest management and silviculture. Road planning, forest management guidelines. Mitigating potential impacts to soils/water resources. Environmental implications of methods/equipment choices. Selling timber, sale design, layout, and administration. Two all-day field trips.

FR 5471. Forest Planning and Management. (3 cr; A-F only. Prereq.–FR 5471. Prereq.–Grad student or #) Processes/techniques for scheduling forest management. Goals of landowners, industry, government, and society. Issues/policies/regulations that influence management. Predicting outcomes, financial analysis, regulation, mathematical models, linear programming, economic analysis. Landscape-level management, historical range of variability, wildlife management, carbon sequestration, resource monitoring, certification, adaptive management.

FR 5480. Topics in Natural Resources. (1-3 cr [max 3 cr]. Prereq.–FR 5480. Prereq.–#) Lectures in special fields of natural resources given by visiting scholar or regular staff member. Topics specified in Class Schedule.

FR 5501. Urban Forest Management: Managing Greenspaces for People. (3 cr. Prereq.–FR 5501. Prereq.–Grad student or #) Management concepts for green infrastructure of cities, towns, and communities. Urban forest as social/biological infrastructure. Emphasizes management of urban forest ecosystem to maximize benefits. Tree selection, risk assessment, cost-benefit analysis, landscape planning, values, perceptions. How urban forestry can be a tool to improve community infrastructure.

FR 5611. Field Silviculture. (2 cr. Prereq.–San or #) Collection of field data to prepare/write silvicultural prescriptions for regeneration, thinning, and harvesting in context of landscape, watershed, and wildlife habitat issues. Field exercises in forest entomology, pathology, tree improvement, and non-timber forest products. Tree planting. Marking stands for harvest. Taught at Cloquet Forestry Center. Field trips to forests managed by state/industry.


FR 5615. Field Remote Sensing and Resource Survey. (2 cr; A-F only. Prereq.–San or #) Field applications of remote sensing, sampling/measurement methods to inventory/mapping of forest and other natural resources. Offered at Cloquet Forestry Center.


FR 5700. Colloquium in Natural Resources. (1-3 cr [max 3 cr]. Prereq.–#) Colloquium in specialized topics in natural resources.

French (FREN) Department of French and Italian College of Liberal Arts

FREN 1. Reading French in the Arts and Sciences. (0 cr) Basic reading knowledge of French language; intensive reading and translation of texts from a wide variety of disciplines. Students successfully completing the course obtain Language Certification in French which satisfies a Graduate School requirement.

FREN 100. Reading French in the Arts and Sciences. (0 cr) Basic reading knowledge of French language. Intensive reading/translation of texts from a wide variety of disciplines. Students successfully completing the course obtain Language certification in French.

FREN 101. Beginning French. (5 cr) Basic listening, speaking, reading, and writing skills. Emphasis on communicative competence. Some cultural readings.

FREN 102. Beginning French. (5 cr. Prereq.–FREN 100 or equiv) Basic listening, speaking, reading, and writing skills. Emphasis on communicative competence. Some cultural readings.


FREN 1022. Accelerated Beginning French. (5 cr. Prereq.–2 or more yrs high school French) For students who have studied French in high school or at community colleges and who do not place high enough on placement exam to enter 1003. An accelerated review of FREN 1001 followed by the material covered in FREN 1002.

FREN 1004. The Poetry of Vision: Dante’s “Purgatory” and Trecento Painting. (3 cr. A-F only. Prereq.–Freshman) Examples of art of Dante’s time, including especially painting, but also architecture and manuscript illumination, from major Italian/French sources known to Dante.

FR 1005. Freshman Seminar. (3 cr; A-F only. Prereq.–Freshman) Topics specified in Class Schedule.
Course Descriptions

FREN 190W. Remembering to Forget: Holocaust and Its Afterlife. (3 cr; A-F only; JWST 190W. Prereq—FREN/Fr.) The urge to study Holocaust as singular event is studied through testimonies, artistic endeavors, popular culture, and theory. Drawbacks of a hyper-memory bordering on amnesia.

FREN 191W. Freshman Seminar. (3 cr; A-F only; Prereq—FREN/Fr.) Topics specified in Class Schedule.

FREN 3010. French Expression. (3-6 cr [max 6 cr]) Intensive work in oral/written communication.


FREN 3015. Advanced French Grammar and Communication. (4 cr. Prereq—1004 or equiv or #) Advanced study of French with particular emphasis on grammar review, vocabulary building, oral communication skills, and language usage in cultural contexts.

FREN 3016. Advanced French Composition and Communication. (4 cr. Prereq—3015 or equiv or #) Advanced study of grammar in context; emphasis on writing for various communicative purposes, reading for style and content, translation.

FREN 3018. French Oral Communication. (3 cr. Prereq—3014, 3015) Intensive work in oral expression, listening comprehension. Incorporates wide variety of cultural topics.

FREN 3019. French Diction and Speaking. (2 cr. Prereq—1010) The relationship between the written and the spoken word in French. Learn to read prose and poetry aloud from a text using appropriate French pronunciation, etc. Leads to playing and possible performance.

FREN 3022. The Language and Culture of Business in France. (3 cr. Prereq—3015; completion of 3016 recommended) Examines French business language as well as business practices and culture in France. Includes cross-cultural analysis.


FREN 3111. Medieval Stories. (3 cr. Prereq—3101) Reading/discussion of major forms of medieval tale (comic, bawdy, moralizing, fantasy, historical) in modern French translation. Explores their relationship to development of French culture, especially urbanization, class relations, marriage, role of Church.

FREN 3140. Topics in Medieval and Renaissance Literature. (3 cr [max 6 cr]; Prereq—3101) Different aspects of French literature/culture of medieval/Renaissance periods (11th-16th century). Content varies depending on instructor. Literary, historical, or social problem. Period, author, genre, or topic of interest. Readings may be literary, critical, cultural, historical, political, etc. Specific content posted in department and in Course Guide.

FREN 3170. The Unruly Subject(s) of Classicism: Writing, History, Power in Ancien Régime France. (3 cr [max 9 cr]; Prereq—3101 or equiv) The formation of subjectivity in the literature and culture of 17th- and 18th-century France. Aesthetics of classicism, consolidation of state power, and representations of the individual in theater, novel, and prose.

FREN 3172. The Court Society: Literature, Culture, Spectacle. (3 cr. Prereq—3101) Examines the court and salon society in 17th-century France. The production of taste, sociability, and national identity is considered in literature, painting, architecture, and the plastic arts.

FREN 3181. Mapping Enlightenment in 17th- and 18th-Century French Prose. (3 cr. Prereq—3101) The themes, values, and critical strategies of the social and intellectual movement designated by the term Enlightenment. The legacy of the Enlightenment project will also be evaluated.

FREN 3240. Topics in Ancien Regime Literature. (3 cr [max 3 cr]; Prereq—3101) Different aspects of French literature/culture from early modern period (17th/18th centuries). Content varies depending on instructor. Literary, historical, or social problem. Period, author, genre or topic of interest. Readings may be literary, critical, cultural, historical, political, etc. Specific content posted in department and in Course Guide.

FREN 3250. French Poetry. (3 cr [max 9 cr]; Prereq—3101) The historical, political, and social contexts of the evolution of French poetry from its origins to the modern era. While studying primarily lyric poetry, epic and dramatic poetry may also be considered when appropriate.

FREN 3260. Dramas of Culture: 20th-Century French and Francophone Theater. (3 cr [max 9 cr]; §) The historical, political, and social contexts of the evolution of French poetry from its origins to the modern era. While studying primarily lyric poetry, epic and dramatic poetry may also be considered when appropriate.

FREN 3320. Sense of Self in 18th-Century French Literature. (3 cr. Prereq—3101) Examines the role of 18th-century literature in defining modern period as that of post-Revolution era. The historical, political, and social changes in France primarily in the modern period.

FREN 3321. Producing the Bourgeois Subject: The Sense of Self in 19th-Century French Literature. (3 cr. Prereq—3101) Examines the role of 18th-century literature in defining modern period as that of post-Revolution era. The historical, political, and social changes in France primarily in the modern period.


FREN 3340. Topics in Modern French Literature. (3 cr [max 9 cr]; Prereq—3101) Different aspects of French literature/culture, defining modern period as that of post-Revolution France. Content varies depending on instructor. Literary, historical, or social problem. Period, author, genre, or topic of interest. Readings may be literary, critical, cultural, historical, political. Specific content posted in department and in Course Guide.

FREN 3350. Topics in Literature. (3 cr [max 9 cr]; Prereq—3101) Focuses on a problem, period, author, or topic of interest. Specific content posted in department and listed in Course Guide.

FREN 3360. Coming of Age. (3 cr [max 9 cr]; Prereq—3101) A study of the literature of education and of the process of youth coming to terms with society. Readings will vary and will be drawn from a number of time periods.

FREN 3371. Writing Crisis in (Post) Modern Times. (3 cr. Prereq—3101) Examines the meaning and purpose of the notion of crisis in French novels. How crises, be they personal, social, political, prompt writers to create new modes of (dis)connecting with other persons, institutions, and society.

FREN 3380. Modern Times: Literature of the 19th and 20th Centuries. (3 cr [max 9 cr]; Prereq—3101) Variously emphasizing the two centuries. Sample topics include: esthetic currents (Realism and the novel); cultural considerations (gendered representations); philosophical concerns (the relation of individuals to the social body in civil society).

FREN 3410. Quebecois Literature. (3 cr [max 9 cr]; Prereq—3101) Study writing produced in Quebec as a literature of its own, not simply as a part of Canadian literature. Literature will be studied in relation to other North American literatures and to Francophone literature produced elsewhere in the world.

FREN 3479. Francophone Writers of the African Diaspora. (3 cr. Prereq—3101) Literature from Francophone North Africa, Africa, the Caribbean of the colonial and/or post-colonial era, examined in its historical, cultural, or ideological contexts. Reading selections may include texts by immigrant or exiled writers in France.

FREN 3501. Structure of French: Phonology. (3 cr. §FREN 5510. Prereq—3014, 3015, LING 3001 or #) Advanced study of the sound system of contemporary French.

FREN 3502. Structure of French: Morphology and Syntax. (3 cr §FREN 5502. Prereq—3015, LING 3001 or #) Linguistic study of contemporary French word forms (inflectional and derivational morphology); introduction to French syntax (linguistic study of grammar) and characteristic syntactic constructions.


FREN 3531. Sociolinguistics of French. (3 cr §FREN 5531. Prereq—3015, LING 3001 or #) Language and culture of French. Includes study of factors which influence the French language and culture from Latin to contemporary French. Selected texts. Present stage and development.

FREN 3534. Oral Discourse of French. (3 cr. Prereq—3015; LING 3001 recommended) Nature of contemporary spoken French discourse. Focuses on spontaneous, multi-speaker discourse. Readings include examples of various linguistic approaches to such discourse. Emphasizes syntactic analysis. Phonological/lexical particularities. ‘Macro’ level analyses such as discourse analysis and conversation analysis.

FREN 3601. French Civilization and Culture I. (3 cr; Prereq—3105) Roman occupation of Gaul to 1715.

FREN 3602. French Civilization and Culture II. (3 cr; Prereq—3105) 1705 to present.

FREN 3650. Topics in French/ Francophone Cultures. (3 cr [max 9 cr]; Prereq—3101) Focus on aspects of French and/or francophone cultures in various historical, social, political, and geographical contexts.


FREN 3706. Quebec: Literature and Film in Translation. (3 cr. Prereq—Not for majors) A survey of Quebec literatures and film in English or with subtitles. Particular attention paid to cultural tensions as well as to the impact of women writers and filmmakers on each genre.

For definitions of course numbers, symbols, and abbreviations, see page 300.
FREN 3110W. Reading Libertinage: Dangerous Lessons in Translation. (3 cr [max 9 cr]. Prereq–Non-French major; knowledge of French helpful)

The meaning and purpose of the notion of “change” in French novels. Explore how a multiplicity of causes produces major changes in an individual’s personal and public life. The notion of change as it relates to financial and intellectual speculation.

FREN 3501. Critical Issues in French Studies. (3 cr. Prereq–Grad or #)

Introduces the methods of interpretation and critical debates that have shaped and continue to define the discipline of French studies. Provides a practical introduction to graduate-level literary research.

FREN 5350. Topics in Literature and Culture. (3 cr [max 12 cr. Prereq–3101 or equiv])

Problem, period, author, or topic of interest. See Class Schedule.

FREN 5470. Post/Colonial Francophone Literatures. (3 cr [max 9 cr. Prereq–3111 or above])

Francophone literature from North Africa, Africa, and the Caribbean of the colonial and/or post-colonial eras in the light of relevant literary and cultural theories.

FREN 5501. Structure of French: Phonology. (3 cr. §[FREN 3501. Prereq–LING 3001 or LING 5001], grad student) Advanced study of sound system of contemporary French.

FREN 5502. Structure of French: Morphology and Syntax. (3 cr §[FREN 3502. Prereq–5501 or #])

Linguistic study of contemporary French word forms (inflectional and derivational morphology); introduction to French syntax (linguistic study of grammar) and characteristic syntactic constructions.

FREN 5531. Sociolinguistics of French. (3 cr. §[FREN 3531. Prereq–3531: LING 3001 or 5001, grad] Students in this course will explore a variety of sociolinguistic and sociolinguistic approaches to French as a language and as a social and cultural phenomenon. This course will focus on the following topics: Phonological/lexical particularities, ‘Macro’ level analyses such as discourse analysis and conversation analysis.

FREN 5995. Directed Teaching. (1-6 cr [max 24 cr]. S-N only. Prereq–#) Directed teaching.

FRIT 3802. Cinema and Realism. (3 cr)

Examines French poetic realism, relating it to two other periods of realist film, Italian Neorealism and American film noir. Taught in English. Knowledge of French helpful but not necessary.

FRIT 3803. New Wave cinemas: Love, Alienation and Landscape in Post-War Italian and French Film. (3 cr)

Modernist Italian and New Wave French cinema after WWII, focusing on film syntax, constructions of gender, and the individual’s relationship to the modern urban and rural landscape. Taught in English. Knowledge of Italian and French helpful but not necessary.

FRIT 3804. Cinema and Culture: The City of Paris. (3 cr)

How French cinema, from the silent era to the present, reflects and constructs the pleasures and anxieties of urbanization, new modes of entertainment, and new cultural roles for men and women. Taught in English. Knowledge of Italian and French helpful but not necessary.

FRIT 3850. Topics in French and Italian Cinema. (3 cr [max 9 cr. Prereq–Knowledge of [French or Italian] helpful but not required]) Themed, problem, period, filmmaker, or topic of interest in French/Italian cinema. See Class Schedule. Taught in English.

FRIT 5257. Passionate Beings: Literary and Medical Problematics in Italy and France from 1800 to the Present. (4 cr)

Literary and medical representations of the passions in France and in Italy from 1800 to the present. Texts range from theatrical works to medical treatises on the passions as ways for exploring notions of subjectivity, responsibility, order. Taught in English.

FRIT 5850. Topics in French and Italian Cinema. (3 cr. Prereq–Knowledge of [French or Italian] helpful but not required)

Focuses on a theme, period, filmmaker, or other topic of interest in French or Italian cinema. See Class Schedule. Taught in English.

FRIT 5999. Teaching of French and Italian: Theory and Practice. (3 cr)

Theoretical and practical aspects of language learning and teaching applied to French and Italian. Includes history of foreign language teaching in 20th-century United States. Taught in English.
Geographic Information Science (GIS)

Department of Geography

College of Liberal Arts


GIS 5571. Introduction to Arc/Info. (3 cr. Prereq.–GEOG 5561 or equiv, status in MGIS program or #) Introductory overview of the Arc/Info system. Topics include data capture, geometric transformations and map projections, topology, editing systems, database management and map production.

GIS 5572. Advanced Arc/Info. (3 cr. Prereq.–GEOG 5571, GEOG 5561 or equiv, status in MGIS program or #) Advanced course in Arc/Info providing in-depth exploration of the topics emphasized in GIS 5571 as well as advanced topics including dynamic segmentation, address matching, and macro language programming.

GIS 5573. Desktop Mapping. (1.5 cr. Prereq.–GEOG 5561 or equiv, GEOG 5571 or equiv, status in MGIS program or #) Introduction to desktop mapping systems such as ArcView, MapDirector, and MapPoint. Emphasizes the application of these systems to the display and analysis of geographical data.

GIS 5574. GIS and the Internet. (1.5 cr. Prereq.–GEOG 5561 or equiv, status in MGIS program or #) The role of the Internet in GIS applications. Topics include GIS data sources on the Internet, the role of the Internet in information dissemination, Internet capabilities for interactive mapping and issues surrounding the development of GIS-related Web sites.

GIS 5575. Surveying and the Global Positioning System (GPS). (2 cr. Prereq.–GEOG 5561 or equiv, status in MGIS program or #) Introduction to GPS (Global Positioning System) and other surveying techniques of use to GIS professionals. Topics include geodesy, data adjustment, datums, ellipsoids, coordinate systems, and transformations.

GIS 5577. Spatial Data Administration. (3 cr. Prereq.–#) Theory/application for administration of geographic databases. Quality assurance, development planning/management, maintenance, access/distribution, documentation.

GIS 5578. GIS Programming. (2 cr. Prereq.–MGIS student or #) Opportunities/flexibility that computer programming offers to application of GIS technologies. Object-oriented programming techniques using Microsoft’s Visual Basic programming language. Students apply GIS principles/concepts within Visual Basic programs using ESRI’s MapObjects.

GIS 5590. Special Topics in GIS. (1-3 cr. [max 6 cr]; A-F only. Prereq.–#) Special topics in geographic information science (GIS). Topics vary according to student needs, technological developments in field.

For definitions of course numbers, symbols, and abbreviations, see page 300.
Course Descriptions

GEOG 3111. Geography of Minnesota. (3 cr)
The evolution of Minnesota and its current geography. The state is a unique political entity that possesses similarities with other states because of the homogenizing influence of the federal government.

GEOG 3141. Africa. (3 cr. §AFRO 3141)
Regional differentiation of human groups and environmental culture contact and problems of underdeveloped countries south of the Sahara.

GEOG 3145. The Islamic World. (3 cr. §GLS 3645)

GEOG 3158. Southern Africa: Apartheid and Beyond. (3 cr; A-F only. Prereq–Soph or jr or sr)

GEOG 3161. Europe: A Geographic Perspective. (3 cr. §GLS 3921)
Comparative analysis and explanation of Europe. Physical, demographic, ethnic/cultural, economic, political, and urban landscapes; European integration - the European Union; transformation of Eastern Europe. German language discussion group in conjunction with the course for 1 extra credit.

GEOG 3181, Russia and Environments. (3 cr. §GEOG 5181)

GEOG 3211. East Asia. (3 cr. §EAS 3211, GEOG 3215, GEOG 5211, GEOG 5215)
Physical and human geography of Japan, mainland China and Taiwan, North and South Korea; population pressure, economic and urban development, and international relations.

GEOG 3212. South Asia and Global Processes. (3 cr)

GEOG 3331. Geography of the World Economy. (3 cr)
Geographical distribution of resources affecting development; location of agriculture, industry, services; geography of communications; agglomeration of economic activities, urbanization, regional growth patterns; international trade; changing global development inequalities; impact of globalizing production and finance on the welfare of nations, regions, cities.

GEOG 3335. Environmental Quality. (3 cr)
The quality of the human environment depends on 1) how humans make decisions about how to act, 2) how they act, and 3) how they evaluate both. In the United States, this process is best described as ‘disjointed individualism, in which governments, organizations, and individuals play distinct and important roles.

GEOG 3361W. Land Use, Landscapes, and the Law. (3 cr)
Landscapes are political statements. They reflect how individuals, and governments, have exercised the legal rights that they possess to produce goods and provide services.

GEOG 3371W. Honors: Introduction to Urban Geography. (4 cr. Prereq–Honors)
Character, distribution, development of cities in present-day world. Internal/external locational relationships.

GEOG 3371W. Cities, Citizens, and Communities. (4 cr)
Character, distribution, and development of cities in present-day world. Internal/external locational relationships.

GEOG 3373. Changing Form of the City. (3 cr)
Urban origins, ancient cultures/cities, the medieval city, rediscovery of planning, colonial cities. Industrialization and urban expansion. Speculative cities, utopian cities, planning triumphs/disasters. Cities as reflections of society, culture, the past.

GEOG 3374W. Honors: The City in Film. (4 cr. §GEOG 3374W, GEOG 5374W, Prereq–Honors)
Cinematic portrayal of changes in 20th-century cities worldwide. Social/cultural/conflict, political/economic processes, changing gender relationships, rural versus urban areas, population development issues (especially as they affect women/children). Additional weekly meeting discussions, films, readings. Project on a topic selected in consultation with instructor.

GEOG 3374W. The City in Film. (4 cr. §GEOG 3374V, GEOG 5374W)
Cinematic portrayal of changes in 20th-century cities worldwide including social and cultural conflict, political and economic processes, changing gender relationships, rural versus urban areas, and population and development issues (especially as they affect women and children).

GEOG 3375. Minority Settlement in America. (3 cr)
Comparative analysis of minorities in American cities, including migration patterns, residential patterns, socioeconomic characteristics, public and private community enterprises, and class in urban structure.

GEOG 3376. Political Ecology of North America. (3 cr)
Social production of nature in North America related to questions of social/environmental justice. Economic, political, cultural, ecological relations that shape specific urban/rural environments, social movements that have arisen in response to environmental change. Importance of culture/identity in struggles over resources/environments.

GEOG 3377. Music in the City: Sounds and Bodies in Different Places. (3 cr; A-F only)
Geographical conceptions of place, space, embodiment, and identity. Case studies of music.

GEOG 3378. Third World Underdevelopment and Modernization. (3 cr)
Processes underlying socioeconomic change in the Third World. Evolving global economy and internal spatial and socioeconomic conditions. Conditions of modernization and underdevelopment in the Third World.

GEOG 3379. Environment and Development in the Third World. (3 cr. A-F only. §GLS 3303. Prereq–Soph or jr or sr)
Basic concepts for analyzing relations between capitalist development and environment in Third World. Analytical concepts about historical geography of capitalist development, geographically historically specific case studies, likelihood of social/environmental sustainability.

GEOG 3381W. Population in an Interacting World. (4 cr)
Comparative analysis and explanation of trends in fertility, mortality, internal and international migration in different parts of the world; world population problems; population policies; theories of population growth; impact of population growth on food supply and the environment.

GEOG 3401. Geography of Environmental Systems and Global Change. (4 cr. A-F only. §GEOG 5401)
Geographical patterns, dynamics, and interactions of atmospheric, hydroospheric, geomorphologic, pedologic, and biologic systems as context for human population, development, and resource use patterns.

GEOG 3401H. Honors: Geography of Environmental Systems and Global Change. (4 cr. A-F only, Prereq–Honors)
Geographical patterns, dynamics, and interactions of atmospheric, hydroospheric, geomorphologic, pedologic, biologic systems as context for human population, development, resource use patterns.

GEOG 3411W. Geography of Health and Health Care. (4 cr. §GEOG 5411)
Application of human ecology, spatial analysis, political economy, and other geographical approaches to analyze problems of health and healthcare. Topics include distribution and diffusion of disease, impact of environmental, demographic, and social change on health; distribution, accessibility, and utilization of health practitioners and facilities.

GEOG 3431. Plant and Animal Geography. (3 cr. §GEOG 5431)
Introduction to biogeography. Focuses on patterns of plant/animal distributions at different scales over space/time. Evolution, biogeographical, and applied biogeography. Paleobiogeography, vegetation-environment relationships, vegetation dynamics/disturbance ecology, human impact on plants/animals, natural and human-made weekly meeting discussions, group/individual projects, local field trips.

GEOG 3441. Quaternary Landscape Evolution. (3 cr; A-F only. Prereq–1403 or 3403 or #)
Roles of climate change, geomorphic history, vegetation change, and soil development in evolution of landscape patterns during Quaternary Period. Emphasizes North America.

GEOG 3511. Principles of Cartography. (4 cr. Prereq–3 cr in geog or #)
History and development of U.S. academic cartography, coordinate systems and map projections, data classification and map generalization, methods of thematic symbolization, and cartographic design. A series of computer-based lab exercises will apply conceptual lecture material to the creation of thematic maps.

GEOG 3531. Numerical Spatial Analysis. (4 cr. §GEOG 5531)
Introduction to theoretical and applied aspects of geographical quantitative methods with a focus on spatial analysis. Emphasis placed on the analysis of geographical data for spatial problem solving in both the human and physical areas of the discipline.

GEOG 3561. Principles of Geographic Information Science. (4 cr. Prereq–jr or sr)
Introduction to study of geographic information systems (GIS) for geography and non-geography students. Topics include GIS application domains, data models and sources, analysis methods and output techniques. Lectures, readings and hands-on experience with GIS software.

GEOG 3561H. Honors: Principles of Geographic Information Science. (4 cr. Prereq–Honors. [jr or sr])
Introduction to study of geographic information systems (GIS). GIS application domains, data models/sources, analysis methods, output techniques. Lectures, readings, hands-on experience with GIS software.

GEOG 3605W. Honors: Geographical Perspectives on Planning. (4 cr. §GEOG 3605W, GEOG 5605W, GEOG 5605W, PA 5603W)
Role of planning in reshaping 19th-/20th-century cities in Europe, North America, selected Third World countries. History of planning. Societal change, interest groups, power relations in planning processes. Citizen participation/practice in planning. Meets with 3605W. Includes additional weekly seminar-style meeting, bibliography project on a topic selected in consultation with instructor.
GEOG 3605W. Geographical Perspectives on Planning. (4 cr. §GEOG 3605V, GEOG 5605V, GEOG 5605W) Prereq—Concurrent enrollment in a Geog course that has community service learning component. Community service learning, readings, written assignments, class activities that promote reflection/synthesis. Students investigate what they learn in more traditional geographic/courses and confirm/question their understanding of geographic themes and their own role as social actors.


REER 3171. American Cities I: Population and Housing. (4 cr. §PA 5201W) Emergence of North American cities; residential building cycles, density patterns; metropolitan housing stocks, supply of housing services; population and household types; neighborhood-level patterns of housing use; housing prices; intraurban migration; housing submarkets inside metro areas; emphasis on linking theory, method, case studies.


GEOG 5374W. The City in Film. (4 cr. §GEOG 3374V, GEOG 3374W) Prereq—Grad student or #). Cinematic portrayal of changes in 20th-century cities worldwide. Social/cultural conflict, political/economic processes, changing gender relationships, rural versus urban areas, population/development issues (especially as they affect women/children). Meets concurrently with 3374. Additional weekly meeting discusses films, readings. Project on a topic selected in consultation with instructor.

GEOG 5377. Music in the City: Sounds and Bodies in Different Places. (3 cr) Geographical conceptions of place, space, embodiment, and identity. Case studies of music.


GEOG 5401. Geography of Environmental Systems and Global Change. (4 cr. §GEOG 3 401, Prereq—Grad student or #) Processes that create/change the spatial patterns of climate, vegetation, and soils. Potential of humans to alter climate, vegetation, and soil processes. Possible impacts of human-altered environmental conditions.

GEOG 5411. Geography of Health and Health Care. (4 cr. §GEOG 3411W) Application of human ecology, spatial analysis, political economy, and other geographical approaches to analyze problems of health and health care. Topics include distribution and diffusion of disease, impact of instrumental, demographic, and social change on health; distribution, accessibility, and utilization of health practitioners and facilities.

GEOG 5421. Introduction to Atmospheric Science. (3 cr. §GEOG 5421) Prereq—Familiarity with fundamentals of physics, calculus, and statistics, including integral calculus. Calculus-based introduction to atmospheric dynamics, radiation, thermodynamics, chemical composition, and cloud processes. Applications to climate, meteorology, the hydrologic cycle, air quality, and biogeochemical cycles.

GEOG 5423. Climate Models and Modelling. (3 cr. Prereq—3401 or #) Survey of development and research with simple and complex (three-dimensional) climate models. Environmental processes and their numerical representation in climate models; evaluation of model sensitivity and accuracy; coupling between atmosphere, biosphere, hydrosphere, and cryosphere; assessment of model predictions for climate change.

GEOG 5426. Climatic Variations. (3 cr. Prereq—1425 or 3401 or #) Theories of climatic fluctuations and change at decadal to centuries time scales; analysis of temporal and spatial fluctuations. Models especially during the period of instrumental record.

GEOG 5431. Plant and Animal Geography. (3 cr. §GEOG 3431) Introduction to biogeography. Focuses on patterns of plant/animal distributions at different scales over time/space. Evolutionary, ecological, and applied biogeography. Paleobiogeography, vegetation-environment relationships, vegetation dynamics/disturbance ecology, human impact on plants/animals, nature conservation. Discussions, group/individual projects, local field trips.

GEOG 5441. Quaternary Landscape Evolution. (3 cr. Prereq—3401 or grad student or #) Roles of climate change, geomorphic history, vegetation change, and soil development in the evolution of landscape patterns during the Quaternary Period, with emphasis on North America.


GEOG 5512. Cartography: Topics. (3 cr. Prereq—3511 or 3531 or #) Selected topics include the system of cartographic communication, map design, map reading, analysis, history, analysis of cartography.

GEOG 5530. Cartography Internship. (2-7 cr [max 10 cr]. S-N only, Prereq—#) Provides intensive hands-on experience in contemporary map production and design, ranging from GIS applications to digital prepress. Strong computer skills essential.


GEOG 5561. Principles of Geographic Information Science. (4 cr. Prereq—Grad) Introduction to the study of geographic information systems (GIS) for geography and non-geography students. Topics include GIS dependencies and limitations, data models and sources, analysis methods and output techniques. Lectures, reading, and hands-on experience with GIS software.
Course Descriptions

GEOG 5602. Geographic Information Science and Analytical Cartography. (3 cr. Prereq—5561 or 5561 and 3511.) Topics include algorithms and data structures for digital cartographic data, topological relationships, surface modeling and interpolation, map projections and geometric transformations, numerical generalization, and raster and vector processing. Hands-on experience using a variety of software packages.

GEOG 5563. Advanced Geographic Information Science. (3 cr. Prereq—B or better in 3561 or 5561 or #) Advanced study of geographic information systems (GIS). Topics include spatial data models, topology, data encoding, data quality, database management, spatial analysis tools and visualization techniques. Hands-on experience using an advanced vector GIS package.

GEOG 5664. Urban Geographic Information Science and Analysis. (3 cr. Prereq—3561 or 5561.) Core concepts in urban geographic information science including sources for urban geographical and attribute data (including census data), urban data structures focusing on the TIGER data structure), urban spatial analyses (including location-allocation models), geodemographic analysis, network analysis, and the display of urban data.

GEOG 5565. Geographical Analysis of Human-Environment Systems. (3 cr. Prereq—3561 or 5561 or FR 4131 or LA 5573 or one intro GIS or grad student or #) Applications of geographic information systems and other spatial analysis tools to analysis of environmental systems patterns, dynamics, and interactions. Focuses on global to landscape databases developed to analyze atmospheric, hydrospheric, geomorphic, pedologic, biologic, and human landuse systems.

GEOG 5588. Multimedia Cartography. (3 cr. Prereq—Minimum of three geog courses including one cartography course or any cartography or #) Conceptualizing geographic topics in animatable form, selecting appropriate animation metaphors for specific ideas, using standard graphic software to prepare images for computer display and animation.


GEOG 5605W. Geographical Perspectives on Planning. (4 cr.) GEOG 3605W, GEOG 3605W, GEOG 5605W, PA 5203W, Prereq—Grad student or #) Open to graduate students and undergraduates wishing Honors credits. Includes one additional weekly seminar-style meeting and a bibliography project on a topic selected in consultation with the instructor. Meets with 3605.

GEOG 5701. Field Research. (3 cr. Prereq—9 cr in geog, #) Field investigation in physical, cultural, and economic geography: techniques of analysis and presentation; reconstruction of environments.

GEOG 5775. Geographic Education. (3 cr. Prereq—Three courses in geography or history or social sciences or education or #) Teaching geography from middle school up; pedagogical use of geographical themes; methods for effective teaching of multiple cognitive domains—facts, theories, analytical skills, and evaluations; designing audio-visual aids, independent projects, simulations, etc. to meet National Standards in geography.

GEOG 5900. Topics in Geography. (3 cr. [max 9 cr. Prereq—Sr or grad, #) Special topics and regions. Course offered by visiting professors in their research fields.

Geological Engineering (GEOE)

GEOE 3111. How to Model It: Building Models to Solve Engineering Problems. (3 cr.) Problem formulation design and construction of models, and drawing conclusions from modeling results. Students learn how to use computer-based modeling tools working in small groups on a number of problems from various engineering contexts.


GEOE 4011. Special Topics. (1-4 cr; max 12 cr) Prereq—Upper div (§) Topics, credits vary.

GEOE 4102W. Capstone Design. (3 cr; A-F only; Prereq—CE, Geoe, or Geo upper division or graduate student or #) Team participation in formulation and solution of open-ended civil engineering problems from conceptual stage through preliminary planning, public hearings, design, and environmental impact statements to preparation of final plans and specifications, and award of contracts.

GEOE 4111. Engineering Systems Analysis. (3-4 cr. §CE 4111. Prereq—Upper division div) Systems Analysis focuses on a broader “systems” approach of viewing problems. The techniques of operations research—decision engineering, network analysis, simulation, linear programming, and expert systems—are used to represent systems, and especially to assess trade-offs.

GEOE 4121. Computer Applications in Civil Engineering II. (3 cr. A-F only; §CE 4121. Prereq—CE or GEOE upper div, 3101, Math 2243, Math 2263) Advanced application of computer tools and methods in solving partial differential equations resulting from the analysis of civil engineering problems. The major tools used will be Spreadsheet and Visual Basic programming. Methods covered could include: finite differences, boundary element, finite element and control volume finite element.


GEOE 4311. Rock Mechanics II. (3 cr; A-F only; Prereq—Upper Division or grad student in IT, 3311, CE 3311, or #) Failure mechanisms in rock masses. Elasto-plastic solutions applied to underground excavations. Design of linings and support systems; rock-support interaction. In situ stresses and excavation shape. Instrumentation and monitoring.

GEOE 4341. Engineering Geostatistics. (3 cr; A-F only; §CE 4341. Prereq—Geo, CE, or Geo upper division or grad student, STAT 3021 or #) Problem solving and decision making in civil and geological engineering using applied statistics. Emphasis on spatially correlated data, e.g. geologic site characterization, and spatial sampling design.

GEOE 4351. Groundwater Mechanics. (3 cr; A-F only; §CE 4351. Prereq—Upper or grad division or student CE 3502 or #) Basic equations. Shallow confined and unconfined flows, two-dimensional flow in the vertical plane, and transient flow. Flow from rivers and lakes toward wells. Determination of streamlines and pathlines in two and three dimensions. Introduction to contaminant transport. Elementary computer modeling.

GEOE 4352. Groundwater Modeling. (3 cr; A-F only; §CE 4352. Prereq—Upper or grad division or student CE 4351 or CE 4351 or #) Principle of analytic element method. Mathematical and computer modeling of single and multiple aquifer systems. Application to actual field problems. Theory and application of contaminant transport models, including capture zone analysis.

GEOE 5311. Experimental Geomechanics. (3 cr; A-F only; §CE 5311. Prereq—Upper division or grad student, 4301, CE 4301, or #) Machine stiffness; closed-loop testing. Small-strain theory. Measurement of deformation; strain gages, LVDTs, accelerometers, and associated circuits. Direct and indirect testing. Material behavior: experiments on anisotropic, damaged, and fluid-filled solids.

GEOE 5321. Geomechanics. (3 cr; A-F only; §CE 5321. Prereq—Upper or grad division or student 4301, CE 4301 or #) Review of elasticity theory and solution of some elastic boundary value problems relevant to geomechanics. Wave propagation in unbounded elastic media. Elements of fracture mechanics and applications. Elements of poroelasticity and applications.

GEOE 5331. Geomechanics Modeling. (3 cr; A-F only; §CE 5331. Prereq—Upper division or grad student 4301, CE 4301 or #) Soil and rock response in triaxial testing; drained and undrained behavior; elastic and plastic properties. Modeling stresses, strains, and failure in geomechanics problems.

GEOE 5341. Wave Methods for Nondestructive Testing. (4 cr; A-F only; Prereq—(A&M 3201, AEM 3031) or #) Introduction to contemporary methods for nondestructive characterization of civil infrastructure (e.g., highways, bridges, geotechnical sites). Imaging technologies based on propagation of elastic waves: ultrasonic and resonant frequency methods, seismic surveys, acoustic emission monitoring. Lecture, lab.

Geology and Geophysics (GEO)


GEO 1003. Dinosaur Evolution, Ecology, and Extinction: Introduction to the Mesozoic World. (3 cr. GEO 5003) Dinosaur diversity and the theories used to introduce evolution, plate tectonics, climate change, and Earth systems. Overview of the history of dinosaur interpretations illustrates the principles and social aspects of scientific investigation.

GEO 1005. Geology and Cinema. (4 cr. GEO 1009, GEO 1101, GEO 2111H, GEO 5001) Physical processes shaping the Earth, it comprises, its nearly five billion year history as told spectacularly, but often wrongly, by Hollywood movies.

GEO 1006. Oceanography. (4 cr. GEO 1106, GEO 5006) How various processes in the ocean interact. Marine biology, waves, tides, chemical oceanography, marine geology, and human interaction with the sea. Labs include study of live marine invertebrates, manipulation of oceanographic data, and discussion using videos showing unique aspects of ocean research.


GEO 1011. Volcanoes of the Earth. (4 cr) Nonmathematical introduction to volcanoes, their origin and distribution on Earth and through time; theory of plate tectonics, origin of magmas and the Earth's interior; products of volcanoes, types of eruptions and hazards, and impact on climate, vegetation, and society.

GEO 1017. Conspiracies, Fraud, and Deception in Earth History. (1 cr) Famous cases of geological deception from three centuries are presented in the intellectual context of their time and demonstrate the prevailing power of scientific reasoning.

GEO 1101. Introduction to Geology. (3 cr. §GEO 1005, GEO 1009, GEO 2111H, GEO 5001) Physical processes that shape the Earth: volcanoes, earthquakes, plate tectonics, glaciers, rivers. Current environmental issues and global change. Lecture.

GEO 1102. Introduction to Earth History. (3 cr. §GEO 1002, GEO 5002) Evolution of life on Earth. Interrelationships of plate tectonism, climate change, and organic evolution that led to the present ecosystem. Impacts of hominid evolution on Earth systems and of geological processes on human society.


GEO 1905. Freshman Seminar. (1-3 cr [max 6 cr]; A-F only. Prereq-Freshman) Topics vary. See Class Schedule.

GEO 1906W. Freshman Seminar: Writing Intensive and Environmental Theme. (1-3 cr [max 6 cr]; A-F only. Prereq-Freshman) Topics vary: see freshman seminar topics.


Geo 2301. Mineralogy. (3 cr. Prereq–CHEM 1021 and MATH 1271 or #) Crystallography, crystal chemistry, physics. Physical/chemical properties, crystal structures, chemical equilibria of major mineral groups. Lab includes crystallographic, polarizing microscope, X-ray powder diffraction exercises, hand-specimen mineral identification.

Geo 2302. Petrology. (3 cr. Prereq–2301 or #) Magmatic and metamorphic processes, with an emphasis on plate tectonic interpretation of rock sequences.


GEO 3001. Earth Materials. (3 cr) Common rocks/minerals and their geologic settings. Properties of these materials as basis for identification/use in industry/society.

GEO 3002. Climate Change and Human History. (3 cr) Causes of long-/short-term climate change. Frequency/magnitude of past climate changes; their geologic record. Relationship of past climate changes to development of agrarian societies and to shifts in power among kingdoms/city-states. Emphasizes last 10,000 years.


GEO 3093. Problems in Geology and Geophysics: Junior. (1-4 cr [max 6 cr]; Prereq–#) Geologic or geophysical problems studied independently under the direction of a faculty member.

GEO 3096. Geology of Iceland. (4 cr; A-F only. Prereq–[1001 or 1011], 2301, 2302 or #) Geologic processes that form Iceland. Tectonics, volcanology, geomorphology, glaciology. Interplay between physical environment of Iceland and its social structure and culture. Lectures, field trips.


GEO 3870. Modeling Workshop. (1 cr. [max 2 cr]; Prereq–Geo or GeoEng major or #) Modeling of geologic or geophysical systems.

GEO 3880. Laboratory Workshop. (1 cr [max 2 cr]; Prereq–Geo or GeoEng or GeodEng major or #) Geologic or geophysical laboratory study.

GEO 3900. Field Workshop. (1 cr [max 2 cr]; Prereq–Geo or GeoEng or GeodEng major or #) Geologic or geophysical field study.


GEO 4010. Undergraduate Seminar: Current Topics in Geology and Geophysics. (1-4 cr [max 12 cr]; Prereq–#) Topics in geology and geophysics investigated in a seminar format.

GEO 4003. Problems in Geology and Geophysics: Senior. (1-4 cr [max 6 cr]; Prereq–#) Nonstructured research course enabling seniors to engage in independent research under faculty supervision.

GEO 4004. Senior Thesis. (2 cr [max 4 cr]; Prereq–Sr, Geo or GeoPhys major, #) Nonstructured research course enabling senior-level majors to engage in independent research under faculty supervision. Select problems according to individual interests and in consultation with faculty committee. Thesis and oral defense.

GEO 4006. Geologic Field Studies in Iceland. (4 cr; A-F only. Prereq–[1001 or 1011], 2301, Geo 2302 or #) Lectures, field research in various parts of Iceland. Focuses on individual projects in southwest Iceland. Write-up, oral presentation of field studies.

GEO 4102W. Vertebrate Paleontology: Evolutionary History and Fossil Records of Vertebrates. (4 cr; A-F only. Prereq–1001 or 1002 or BOL 1001 or BOL 1002 or BOL 1003 or #) Vertebrate evolution (exclusive of mammals) in phylogenetic, temporal, functional, and paleoecological contexts. Vertebrate anatomy. Methods in reconstructing phylogenetic relationships and origin/history of major vertebrate groups, from Cambrian Explosion to modern diversity of vertebrate animals.


GEO 4203. Principles of Geophysical Exploration. (3 cr. Prereq–PHYS 1302) Seismic exploration (reflection and refraction); potential techniques (gravity and magnetics) and electrical techniques of geophysical exploration.

GEO 4204. Geomagnetism and Paleomagnetism. (3 cr. Prereq–PHYS 1302, MATH 1272 or #) Present geomagnetic field at the Earth’s surface, secular variation, geomagnetic field reversals. Physical and chemical basis of paleomagnetism: origin of natural remanent magnetization, mineralogy of magnetic minerals, magnetic polarity stratigraphy, apparent polar wander, and environmental magnetism.

GEO 4211. Solid Earth Geophysics I. (3 cr; A-F only. Prereq–2201, PHYS 1302) Basic elasticity, basic seismology, and physical structure of the Earth’s crust and deep interior.

GEO 4212. Solid Earth Geophysics II. (3 cr; A-F only. Prereq–2201, PHYS 1302) Dynamics of the solid Earth, mostly mantle and core; seismic tomography, geothermal measurements, gravity, time-dependent deformation of the Earth, computer modeling.
GE 4301. Igneous and Metamorphic Petrology. (3 cr. Prereq–2302, MATH 1272 or #) Theoretical development of basic thermodynamic tools, chemostratiographic analysis for interpreting chemical processes in igneous/metamorphic rocks. Problem sets.


GE 4402. Biogeochemical Cycles in the Ocean. (3 cr. Prereq.–[CHEM 3501, 1 yr of calculus] or #) Introduction to marine biogeochemistry and chemical oceanography. Processes controlling chemical composition of oceans past/present. Cycles of major/minor constituents, including carbon, nitrogen, phosphorus, silicon, and oxygen and their isotopes. Role of these cycles in climate system.

GE 4501. Structural Geology. (3 cr. Prereq.–2201, 2302) Fundamental concepts related to deformation of Earth’s crust. Processes associated with deformation, folding, faulting, fabric development. Lab/experience include solving problems, conducting physical/numerical experiments, field trips.

GE 4502. Tectonic Styles. (3 cr. Prereq.–4501 or #) Origin and nature of major types of tectonic disturbances affecting the crust and lithosphere, including analysis of the form and development of individual structural components and relationship to plate tectonics. Changes over geologic time in the nature of orogenic processes.

GE 4503. Neotectonics. (3 cr. Prereq.–4501 or #) Integration of diverse elements of geology, geodesy, and geophysics to examine recent and active tectonics of the Earth’s lithosphere; extensional, compressional and wrench tectonic regimes with case studies around the world; modern global plate motions, geotectonic techniques, seismic anisotropy, climatically driven tectonics.

GE 4602. Sedimentology and Stratigraphy. (3 cr. Prereq.–[4302, 1 yr. of geology or geo-engineering or geo-mining] or [CLA 1 or 2 yr. of major in geology] or #) Interpretation of origin of sedimentary rocks through application of basic physical/chemical principles. Modern depositional environments, petrographic microscopy, basin dynamics, stratigraphy.

GE 4631W. Earth Systems: Geosphere/Biosphere Interactions. (3 cr. Prereq.–3401) Interdisciplinary study of global-change forcing mechanisms, feedbacks, dynamics on various time scales, using paleorecord to illustrate processes.

GE 4701. Geomorphology. (3-4 cr. [max 4 cr. Prereq.–1001, MATH 1301 or #) Origin, development, and continuing evolution of landforms in various environments. Environmental implications. Weathering, slope and shore processes, fluvial erosion and deposition, arid region processes, glacial processes.

GE 4703. Glacial Geology. (4 cr. Prereq.–1001 or 1004 or #) Formation and characteristics of modern glaciers; erosional and depositional features of Pleistocene glaciers; history of quaternary environmental changes in glaciated and nonglaciated areas. Field trips and labs.

GE 4911. Advanced Field Geology. (4 cr. Prereq.–4911, #) Geologic mapping; study of igneous, metamorphic, and sedimentary rocks; structures and surficial features; problems involving. Paper required.


GE 5108. Principles of Environmental Geology. (3 cr. Prereq.–Geology majors: core curriculum through 4501 or #; nonmajors: 1001 or #) Human impact on geological environment and effect of geology/geologic processes on human life from an ecosystems and biogeochemical cycles perspective. Geologic limits to resources and carrying capacity of Earth. Land use planning, environmental impact assessment, ecoregologic world models. Field project and trip.


GE 5302. Isotope Geology. (3 cr. Prereq.–A-F only. Prereq.–2303 or #) Theory and use of radioactive, radiogenic, and stable isotopes in geology. Radiocative dating, geothermometry, and tracer techniques in geologic processes.

GE 5353. Electron Microprobe Theory and Practice. (2-3 cr. Prereq.–[1 yr. of geology, one yr. of physics] or #) Characterizing solid materials with electron beam techniques, including reduction of X-ray data to chemical compositions.

GE 5502. Advanced Structural Geology. (3 cr. Prereq.–4501 or #) Analysis of structures and fabrics of deformed rocks. Determination of states of stress and strain in rocks and of evolution of these with time. Deformation mechanisms. Extensive reading in journal literature. Field trips.

GE 5601. Advanced Sedimentology. (4 cr. Prereq.–4602 or #) Modern techniques of sedimentary basin analysis focusing on interactions among the lithosphere, atmosphere, and hydrosphere. Sedimentary facies of modern and ancient systems, petrology of clastic and carbonate deposits, tectonic and palaeoclimatic interpretations, paleocurrent analysis, diagenetic effects on submarine fluid flow, and volcanic sedimentation.

GE 5602. Depositional Mechanics. (3 cr. Prereq.–4602, Math 2243 or #) Elementary mechanics of sediment transport applied to quantitative interpretation of sedimentary rocks.


GE 5705. Limnogeology and Paleoenvironments. (3 cr. Prereq.–#) Within-lake, hydrogeologic, and landscape (geological/biological) processes that lead to formation of various proxy records of paleoenvironments. Systems approach to physical, geochemical, biogeochemical, and biotic proxies. Basic principles, case studies. Emphasizes how proxy records relate to paleoecolmiate.

GE 5713. Tracers and Karst Hydrogeology. (3 cr. Prereq.–5701, #) Karst hydrogeology and application of tracers to determine source, age, and mixing parameters of water in various natural reservoirs. Physical and chemical principles and processes operating in karst hydrogeology; use of natural and synthetic chemical and isotopic tracers or tracers to follow movement and mixing of water through hydrologic cycle.

GE 5802. Scientific Visualization. (3 cr. Prereq.–CSG 1107 or CSCI 1113 or #) Visualization hardware and software, three-dimensional graphics, representation of scientific data, modeling, user interface techniques, output, commonly used algorithms, animation, case studies and examples.

German (GER)

Department of German, Scandinavian, and Dutch College of Liberal Arts

GER 222. Reading German. (0 cr; A-F only) Teaches only a reading knowledge of German. Enables graduate students to satisfy departmental requirements for an advanced degree. Intensive reading of German scholarly texts. Emphasizes reading, grammar, some listening, discipline-specific vocabulary.

GER 1001. Beginning German. (5 cr) Emphasis on working toward novice-intermediate low proficiency in all four language modalities (listening, reading, speaking, writing). Topics include everyday subjects (shopping, directions, family, food, housing, etc.).

GER 1002. Beginning German. (5 cr. Prereq.–1001) Listening, reading, speaking, writing. Emphasizes proficiency. Topics include free-time activities, careers, and culture of German-speaking areas.


GER 1020. Beginning German Conversation. (2 cr. [max 8 cr.]. Prereq–1001 or equiv)
Maintaining language skills through conversational practice. Emphasizes speaking skills, but also includes listening, reading, writing. Reviews essential grammatical structures.

GER 1022. Beginning German Review. (5 cr. Prereq–Placement above 1001)
Intended for students with previous experience in German, primarily those who have studied German in high school or at community colleges, or who are transfer students. Intensive review of all four language modalities (listening, reading, speaking, writing). Preparation for advanced proficiency in German for those desiring to study German beyond the intermediate level.

GER 1024. Advanced Intermediate German. (5 cr. Prereq–1003 or satisfactory completion of Entrance Proficiency Test with competency at the 1004 level)
Intended for students who have not taken the Graduation Proficiency Test and need a review before taking it. Emphasis on developing intermediate mid-high proficiency in listening, reading, speaking, and writing. Contextualized work on grammar and vocabulary is supported by authentic readings and essay assignments.

GER 1095. Freshman Seminar. (3 cr [max 6 cr]. Prereq–1001)
Topics specified in Class Schedule.

GER 1090W. Freshman Seminar. (3 cr; A-F only. Prereq–Freshman)
Topics specified in Class Schedule.

GER 1910W. Freshman Seminar. (3 cr [max 6 cr]; A-F only. Prereq–Freshman)
Topics specified in Class Schedule.

GER 3011W. Conversation and Composition. (4 cr. Prereq–1004)
Achieving proficiency in professional or academic German. Refinement of oral/written expression. Review of important communicative modes of language. Wide range of topics to develop advanced level of proficiency in German.

GER 3012W. Conversation and Composition. (4 cr. Prereq–3011)
Prepares students for upper-level language and content courses in German. Continues the same focus and approach as 3011 with the addition of a larger reading component.

GER 3014. German Media. (3 cr. Prereq–3011)

GER 3016. Techniques of Translation. (3 cr. Prereq–3011)
Theory/practice of translation from/to German in various genres. Idiomatics, stylistics, and cross-cultural aspects of translation.

GER 3021. Business German. (3 cr. Prereq–3011 or equiv)
German economy, business practice. Practice of language used in business. Reading/discussion of German business documents. Preparation of formal letters and reports.

GER 3022. Advanced Business German. (3 cr. Prereq–GER 3021 or equiv)
Provides more intensive training in vocabulary and practices of German business in such areas as banking, trade, import/export, business management, marketing. Prepares students for the “International Test of Business German.”

GER 3104W. Reading and Analysis of German Literature. (4 cr. Prereq–3011)
Introduction to literary analysis. Readings from drama, prose, and lyric poetry, from 18th century to present.

GER 3410. German Literature Before 1750. (3 cr [max 9 cr.]. Prereq–3011)
Representative literary texts of German High Middle Ages, Renaissance, Reformation, and the Baroque, in cultural-historical context. Readings in modern German translation or English.

GER 3421. 18th-Century German Literature. (3 cr. Prereq–3011)
German literature, 1720-1810, Enlightenment/Weilmar classicism in historical/cultural context. Reading/discussion of literary/philosophical works, aesthetic criticism.

GER 3431. 19th-Century Literature. (3 cr. Prereq–3011)
Literary/cultural exploration of 19th-century German literature through an investigation of romanticism, realism, and naturalism. Reading/discussion of literary/critical texts.

GER 3441. 20th-Century Literature. (3 cr. Prereq–3011)
German literature, from 1890 to present, in historical, political, social, and cultural context.

GER 3460. Women Writers in German Literature. (3 cr [max 9 cr.]. Prereq–3011)
Literate/historical investigation of selected German women writers, from perspectives of feminism, gender studies, and cultural studies/ theory. Approaches may be thematic, generic, or chronological.

GER 3490. Topics in German Literature. (3 cr [max 9 cr.]. Prereq–3011)
Intensive exploration of specific authors, literary genres, or literary topics not covered in period courses.

GER 3501. Contemporary Germany. (3 cr. Prereq–3011)
Social, political, and cultural developments in Germany, from 1945 to present.

GER 3510. Topics in German Studies. (3 cr [max 9 cr.]. Prereq–3011)
One topic in depth dealing with culture or civilization of German-speaking countries.

GER 3511W. German Civilization and Culture: Middle Ages to 1700. (4 cr)
Survey of representative cultural-historical events in Germany from early Germanic times to 1700.

GER 3512W. German Civilization and Culture: 1700 to the Present. (4 cr)
Survey of representative cultural-historical events in Germany from 1700 to the present.

GER 3520. Topics in Austrian and Central European Culture. (3 cr [max 9 cr.]. Prereq–3011)
Culture, politics, and economy in Austria and Central Europe. Comparative analysis of cultural/political developments. Topics vary.

GER 3531. Selected Writings in German Intellectual History. (3 cr. Prereq–3011)
Philosophical writings on culture, history, and art. Authors include Lessing, Schiller, Kant, Hegel, Marx, Nietzsche, and Freud.

GER 3593. Directed Studies: German-Speaking Countries. (3 cr. Prereq–No knowledge of German required; cr toward major or minor requires reading in German)
In-depth study of authors or topics from various periods in German literature.

GER 3631. Jewish Writers and Rebels in German, Austrian, and American Culture. (3 cr. Prereq–No knowledge of German required; cr toward major or minor requires reading in German)
Literary/cultural modes of writing used by Jewish writers in Germany, Austria, and America to deal with problems of identity, anti-Semitism, and assimilation. Focus on 20th century. All readings in English.

GER 3634. German Women and Cultural History: Constructing Selves in Narrative Texts. (3 cr. Prereq–No knowledge of German required; cr toward major or minor requires reading in German)
Examination of narrative texts by German women writers against a background of the cultural history of Germany during the 20th century. Focus on personal narrative texts, both written and pictorial, and readings in literary and cultural theory and history. All readings in English.

GER 3641. German Folklore. (3 cr. Prereq–No knowledge of German required; cr for major or minor by arrangement with instructor)
Literary and cultural investigation of the main folklore genres: charms, legends, folktales, and ballads; their composition, origin, and role in society with a strong emphasis on their international character. Readings in English. Majors required to write a paper with use of secondary sources in English and German.

GER 3642. The Grimm’s FAIRY Tales, Feminism, and Folklore. (3 cr. Prereq–No knowledge of German required; cr toward major or minor requires reading in German)
Exploration of the Grimms' fairy tales and investigation of how various folktales types and gender stereotypes developed and became classical models for children and adults. The genre of the literary fairy tale in Germany, Europe, and North America. Comparisons of original literary versions with contemporary tales. All readings in English.

GER 3701. History of the German Language. (3 cr. Prereq–1004)
Change in grammar and lexicon, 750 A.D. to present.

GER 3702. Beginning Middle High German. (3 cr. Prereq–1004)
Middle High German grammar. Selected literary texts.

GER 3704. German Dialects. (3 cr. Prereq–1004)
Contemporary regional dialects recorded on tape and written in texts. Synchronic and diachronic analysis.

GER 3993. Directed Studies. (1-4 cr [max 12 cr.]. Prereq–# A-O)
Guided individual reading or study.

GER 4001. Beginning German. (2 cr. Prereq–Grad student)
Meets concurrently with 1001. See 1001 for course description.

GER 4002. Beginning German. (2 cr. Prereq–Grad student)
Meets concurrently with 1002; see Ger 1002 for course description.

GER 4003. Intermediate German. (2 cr. Prereq–Grad student)
Meets concurrently with 1003. See 1003 for course description.

GER 4004. Intermediate German. (2 cr. Prereq–Grad student)
Meets concurrently with 1004. See 1004 for course description.

GER 4040. German Play: Oral Interpretation and Performance of German. (1-3 cr [max 9 cr.])
Dramatic reading of German play for pronunciation; preparation and rehearsal for production and performance of German play.

For definitions of course numbers, symbols, and abbreviations, see page 300.

GER 4622. German Cinema Since 1945. (3 cr. Prereq—3xxx film course or #) German cinema during the first years of postwar occupation and then in each of the two postwar German states, East and West Germany, from 1949-1990, and finally in the unified Germany from 1990 on. Includes films of DEFA, “New German Cinema,” feminist cinema, German comedies of the 1980s and 1990s, etc.

GER 5011. Advanced Conversation and Composition. (3 cr. Prereq—3011, [grad student or adv undergrad]) Achieving high proficiency in writing/speaking professional/academic German.

GER 5016. Advanced Translation: Theory and Practice. (3 cr. Prereq—3016 or #) Translation theory, related issues in stylistics, philosophy of language; sample translations; student production of translations with methodological commentary.

GER 5101. Analysis of German. (3 cr. Prereq—1004, LING 3001 or LING 5001 or #) Phonology, morphology, and syntax of standard German.

GER 5410. Topics in German Literature. (3 cr [max 9 cr]) Topics may focus on a specific author, group of authors, genre, period, or subject matter. Topics specified in Class Schedule.

GER 5510. Topics in Contemporary German Culture. (3 cr [max 9 cr], Prereq—3011) A topic of contemporary German culture explored in depth.

GER 5510. German Literature in Translation. (3 cr [max 9 cr], Prereq—3004) Knowledge of German required; c/w toward major or minor requires reading in (German) Study in depth of authors or topics from various periods in German literature. Requires no knowledge of German.

GER 5630. Topics in German Cinema. (3 cr [max 9 cr], Prereq—3004 or #) Topics chosen may focus on specific directors, genres, film production or reception, and/or other formal, theoretical, historical, or political issues.

GER 5711. History of the German Language I. (3 cr. Prereq—3011) Historical development of German, from beginnings to 1450.

GER 5712. History of the German Language II. (3 cr. Prereq—5711) Historical development of German from 1450 to 2000.

GER 5721. Introduction to Middle High German. (3 cr) Introduction to Middle High German language and literature. Study of grammar through formal description of Middle High German phonology, morphology, and syntax. Normalized MHG texts read.

GER 5722. Middle High German: Advanced Readings. (3 cr. Prereq—5721) Acquisition of fluency in reading Middle High German normalized as well as non-normalized texts, both poetry and prose.

GER 5731. Old High German I. (3 cr) Study of the monuments of Old High German. Detailed investigation of Old High German in comparison with the other Germanic languages.

GER 5732. Old High German II. (3 cr Prereq—5731) Study of the monuments of Old High German. Detailed investigation of Old High German in comparison with the other Germanic languages.

GER 5734. Old Saxon. (3 cr) Study of the poetry of Old Saxon. Detailed investigation of Old Saxon in comparison with the other Old Germanic languages.

GER 5740. Readings in Philology. (3 cr [max 9 cr]) Philological analysis of a chosen text in any medieval Germanic language.

GER 5993. Directed Studies. (1-4 cr [max 12 cr], Prereq—#, Δ) Guided individual reading or study.

German, Scandinavian, and Dutch (GSD)

Department of German, Scandinavian, and Dutch

College of Liberal Arts

GSD 3451V. Honors Major Project Seminar. (4 cr; A-F only. §GSD 3451W. Prereq—Honors student) Major project under supervision of faculty member. Oral exam based on project.

GSD 3451W. Major Project Seminar. (4 cr; A-F only. §GSD 3451W) Students prepare major project under supervision of faculty member.

GSD 5103. Teaching of Germanic Languages. (3 cr) Second language acquisition theory, methods, testing, and technology applicable to teaching of modern Germanic languages.

Gerontology (GERO)

School of Public Health-Admin


GERO 5110. Biology of Aging. (3 cr) Biological changes that occur with aging. Methods for studying aging, descriptions of population aging, theories on how/why we age. Process of aging in each body system, variation between individuals/populations. Clinical implications of biological changes with age. Guest lecturers from different disciplines.

GERO 5111. Studying Aging and Chronic Illness. (2 cr. Prereq—introductory course in epidemiology or #) Methodological issues unique to studies of older populations. Focuses on measurement of epidemiological characteristics. Health conditions/disorders of older Americans.

Global Studies (GLOS)

Institute of International Studies

College of Liberal Arts


GLOS 1200. Global Studies Practicum. (3 cr [max 6 cr]; A-F only) Exploratory experience in one part of the world as an integral feature of an undergraduate education and as preparation for learning the language of the area visited.


GLOS 1902. Freshman Seminar. (3 cr; A-F only. Prereq—Freshman) Topics specified in Class Schedule.

GLOS 1904. Freshman Seminar. (3 cr; A-F only. Prereq—Freshman) Topics specified in Class Schedule.

GLOS 1905. Freshman Seminar. (3 cr; A-F only. Prereq—Freshman) Topics specified in Class Schedule.

GLOS 1909W. Topics: Freshman Seminar. (3 cr; A-F only. Prereq—Freshman) Topics specified in Class Schedule.


GLOS 3103. Empire and Modernity. (3 cr. Prereq—[3101, 3144] or #) How modern world has been constituted by colonial encounter. Role of colonialism in construction of west. Images of non-western societies. Modernity in colonial/postcolonial societies. Problems/potential of universal categories such as democracy, gender, history, human rights. Globalization at the margins.

GLOS 3144. Knowledge, Power, and the Politics of Representation in Global Studies. (4 cr §GLOS 3144H. Prereq—6 cr in social sciences including [GEOG 1301 or HIST 1015 or HIST 1019 or HIST 1012 or HIST 1018 or POL 1025]) Introduction to theoretical issues. Power/production of knowledge about world regions. Knowledge, power, and politics in contemporary world. Colonialism, nationalism, and modernity in shaping academic disciplines.

GLOS 3144H. Honors: Knowledge, Power, and the Politics of Representation in Global Studies. (4 cr §GLOS 3144. Prereq—honors, 6 cr in social sciences including [GEOG 1301 or HIST 1015 or HIST 1019 or HIST 1012 or HIST 1018 or POL 1025]) Introduction to theoretical issues. Power, production of knowledge about world regions. Knowledge, power, and politics in contemporary world. Colonialism, nationalism, and modernity in shaping academic disciplines.
GLOS 3415. Global Institutions of Power: World Bank, International Monetary Fund, and World Trade Organization. (4 cr; A-F only. §GLOS 3415H. Prereq–6 credits in the social sciences including at least one of the following: GEOG 1 301; HIST 102/1018; GLOS 1015H; or PolSci 1025 or #) Theoretically informed introduction to the social, political, economic, cultural, and historical processes shaping contemporary global phenomena. Topics may include nationalism, colonialism, cultural production, environmental sustainability, globalization of the economy, migration and diasporas, global conflict and cooperation.


GLOS 3302. Debating “Development”: Contested Visions. (3 cr; A-F only. Prereq–CAS 3101, 3144 or #) Critical debates of idea/practice of “development.” Debates over development. Vocabularies (Marxist, feminist, post-structuralist, ecological) that drive the debates.

GLOS 3303. Environment and Development in the Third World. (3 cr; A-F only. GECO 3 370. Prereq–Soph or jr or sr) Basic concepts for analyzing relations between capitalist development and environment in Third World. Analytical concepts about historical geography of capitalist development, geographically/historically specific case studies, likelihood of social/environmental sustainability.


GLOS 3402. Human Rights Internship. (3 cr; A-F only. Prereq–CAS 3101, 3144 or #) Hands-on experience in one of many Twin Cities area organizations engaged in promoting/protecting international human rights. Students work 100 hours in non-governmental organization. Substantive background on human rights laws/procedures, organizational theory/management information about human rights organizations.

GLOS 3410. Interactive Global and Local Studies. (3 cr; A-F only. Prereq–#) Global studies topics studied through their local manifestations in the Twin Cities or Minnesota, and internationally through linked communication with classes at cooperating universities in other countries. Students communicate with counterparts abroad through e-mail to develop comparative/interactive elements in their studies. Sample topics: role of the river in local history, grain storage and processing, manufacturing and trade, growth of the metropolitan area.

GLOS 3415. Global Institutions of Power: World Bank, International Monetary Fund, and World Trade Organization. (4 cr; A-F only. §GLOS 3415H. Prereq–6 credits in the social sciences including at least one of the following: GEGO 1 301; HIST 102/1018; GLOS 1015H; or PolSci 1025 or #) Theoretically informed introduction to the social, political, economic, cultural, and historical processes shaping contemporary global phenomena. Topics may include nationalism, colonialism, cultural production, environmental sustainability, globalization of the economy, migration and diasporas, global conflict and cooperation.

GLOS 3524H. Honors Seminar: Making of the Modern World. (3 cr; A-F only. Prereq–MacArthur Program or #) Interactions across ecological frontiers, changing power relations, restructuring of systems of production, creation of new cultures/identities.

GLOS 3533H. Honors: Change in the Contemporary Global Order. (3 cr; A-F only. Prereq–#) Important issues of global change: population growth, human migration; human relations with physical environment; struggles for popular power, sustainable democratic institutions; relations/conditions of work; cultural representations of social identities. Attention to U-S-Mexico arena.

GLOS 3589H. Honors Research Seminar. (3 cr; A-F only. Prereq-Hons, global studies major) Theoretical perspectives/methods available for research in global studies. Focus varies with instructor.

GLOS 3602. Other Worlds: Globalization and Culture. (3 cr; A-F only. Prereq–CAS 3101, 3144 or #) Globalization produces complex, sometimes volatile, local responses. Course explores interconnectedness of the world, considering not one world, but many. Topics include colonialism, consumption, diasporic conditions, global media, nationalism, supranational governance. Examines how globality is experienced and contested locally and specifically.

GLOS 3605. From Printing Press to Internet: Media, Communications, and History. (3 cr; A-F only. §HST 3705) Print public sphere in 17th, early 18th century. Political conflicts over freedom of press in 18th, 19th century. Emergence of advertising, public relations industries in 20th century. Significance of broadcast, computer network technologies for democratic political systems.

GLOS 3642. Gender and the Global Politics of Health. (3 cr; A-F only. §GWS 3077) Politics, global processes, and social relations that shape health/disease patterns worldwide. Case studies, including HIV/AIDS in Africa, diabetes and health care in the U.S., new reproductive technologies, and access to food. How gender, poverty, geographic/social location, citizenship, sexuality, and other factors help determine degree of vulnerability to disease or right to health.

GLOS 3631W. Food, Culture, and Society. (3 cr) Tools to understand food issues from a sociological perspective. Cross-cultural differences in the way groups/societies think about and relate to food.

GLOS 3620. Foreign Language News Coverage of International Events. (1 cr. Prereq–Completion of college language requirement in language used for course) Compares coverage of current news in selected foreign language newspapers with coverage in a U.S. paper such as The New York Times.


GLOS 3643. Islam and the West. (3 cr; GCAS 3533, MELC 3533) Cultural/ideological trends that have defined fundamental differences between Islam and the West. Development of historical, philosophical, and intellectual mindset of both spheres. Factors that have contributed and continue to contribute to tension, anxiety, and hatred between the Muslim world and Europe and the United States.


GLOS 3701W. Population in an Interacting World. (4 cr) Comparative analysis/explanation of trends in fertility, mortality, and internal/external migration in different parts of the world. World population problems, population policies, theories of population growth. Impact of population growth on food supply and the environment.

GLOS 3900. Topics in Global Studies. (1-5 cr [max 15 cr]) Topics vary every semester. See Class Schedule.

GLOS 3906. Foreign Language Immersion Program Completion. (1 cr; max 2 cr; S-N only. Prereq–Enrolled in full course load in target language, permission of Foreign Language Immersion Program) Credit attached to Foreign Language Immersion Program.

GLOS 3910. Topics in East Asian Studies. (1-3 cr [max 6 cr]) Selected topics in East Asian Studies not covered in regular courses. Topics reflect instructor interests.

GLOS 3920. Topics in European Studies. (3 cr [max 9 cr]) Topics vary. See Class Schedule.

GLOS 3921. Europe: A Geographic Perspective. (3 cr; §GEGO 3 161) Comparative analysis/explanation of Europe’s physical, demographic, ethnic/cultural, economic, political, and urban landscapes. European integration: European Union, transformation of Eastern Europe.

GLOS 3930. Topics in Latin American Studies. (3 cr [max 9 cr]) Topics vary. See Class Schedule.

GLOS 3940. Topics in Middle Eastern Studies. (4 cr [max 12 cr]) Description varies with topic title.

GLOS 3950. Topics in Russian Area Studies. (3 cr [max 9 cr]) Description varies with topic title.

GLOS 3960. Topics in South Asian Studies. (3 cr [max 9 cr]) Topics vary. See Class Schedule.


GLOS 3981W. Major Project Seminar. (3 cr; A-F only) Supports senior project requirement by allowing students to formulate their own research questions, select a topic, develop and produce a 25-30 page undergraduate research paper.

GLOS 3993. Directed Study. (1-5 cr [max 12 cr]; Prereq–A or #) Guided individual reading or study.
GLOS 4221. Sociology of Globalization: Culture, Norms, and Organization. (3 cr; A-F only. §SOC 4231. Prereq-§SOC 1002) 
Sociological literature on globalization of organizations, political relations, and culture. Dependency, world systems theories. Growth of international nongovernmental organizations, their impacts on state policies and civil society. Expansion of international norms governing nation-state behavior. Globalization of popular culture (movies, computer games, etc.). Contemporary trend toward globalization, its manifold impacts on societies/individuals.

GLOS 4311. Race, Class, and the Politics of Nature. (3 cr) Global debates over how nature is produced, consumed, degraded, sustained, and defended. Analytics of race/class. Politics of North-South relations.

GLOS 4504W. Senior Project. (3 cr. Prereq- Sr or #) Research methods, writing skills, and bibliography related to field of study.

GLOS 4609. MSID Directed Research. (2-8 cr [max 8 cr]. Prereq-Admission to MSID program, #) A research project based on field work in Ecuador, Kenya, or Senegal through Minnesota Studies in International Development program.

GLOS 4801. International Development: Critical Perspectives on Theory and Practice. (4 cr; A-F only. Prereq- #) Interdisciplinary approaches to development. Assumptions, competing paradigms, analysis of policies, projects, problems. Globalization, societal crisis, indigenous alternatives to dominant paradigm. Partially taught in separate sections to deepen understanding of particular topic (e.g., environment, health, education).


GLOS 4803. MSID Country Analysis. (4 cr; A-F only. Prereq- #) Multidisciplinary study of host country. Emphasizes social sciences and history, especially concepts/information regarding development issues.

GLOS 4805. Community Internships in the Global South. (4 cr. Prereq-Admission to MSID program, #) Grassroots internship with a host-country development agency or project through Minnesota Studies in International Development. Community characteristics, development strategies/problems, organizational structure/culture, cross-cultural communication issues.

GLOS 4806. Topics: Case Studies in International Development. (4 cr; A-F only. Prereq-Admission to MSID program) Development issues illustrated in students. local-level projects through MSID. Focuses on a particular sector as it relates to development of country. Sample topics: environment and development; health and development; education, literacy, and development; women and development.

GLOS 4807. Applied Field Methods. (4 cr; A-F only) Application of selected field research methods in rural/urban settings in Asia, Africa, and Latin America. Analysis of practical, ethical, and theoretical issues raised through small field assignments/individual research projects.

GLOS 4808. MSID Directed Research. (4 cr [max 8 cr]. A-F only. Prereq-Admission to MSID program, #) Research project based on field work in Ecuador, India, Kenya, or Senegal through Minnesota Studies in International Development (MSID).

GLOS 4809. Advanced International Development Internship. (1 cr) Study abroad course for Minnesota Studies in International Development.

GLOS 4900. Senior Seminar in Global Studies. (3 cr; A-F only. §GLOS 4900H. Prereq-[3101, 3144, global studies major] or #) Interdisciplinary approaches to development. Assumptions, competing paradigms, analysis of policies, projects, problems. Globalization, societal crisis, indigenous alternatives to dominant paradigm. Partially taught in separate sections to deepen understanding of particular topic (e.g., environment, health, education).

GLOS 4901. Topics in Global Studies. (3 cr [max 9 cr]) Topics vary every semester. See Class Schedule.

GLOS 4940. Topics in Asian History. (1-4 cr [max 16 cr]) Selected topics in Asian history not covered in regular courses.

GLOS 4960. Advanced Topics in South Asian Studies. (3 cr. Prereq- Sr or #) Topics vary. See Class Schedule.

GLOS 5103. Empire and Modernity. (3 cr; A-F only. Prereq-[3101, 3144] or #) How modern world has been constituted by colonial encounter. Role of colonialism in construction of west. Images of non-western societies. Modernity in colonial/postcolonial societies. Problems/potential of universal categories such as democracy, gender, history, human rights. Globalization at the margins.

GLOS 5114. International Perspectives: U.S.-Mexico Border Cultures. (3 cr. Prereq-Grad student) The relations of Mexico and the United States from an international perspective with a central focus on the cultural interchange in the border lands between the two countries. Uses both literary and historical materials.

GLOS 5301. Environment & Empire. (3 cr; A-F only. Prereq-[3101, 3144] or #) KEY issues in environmental history. Emphasizes global/colonial processes that have made modern environment. Global spread of diseases, modern remaking of world’s flora/fauna, idea of nature. New technologies and the environment. Conservationist ideology.

GLOS 5410. Interactive Global and Local Studies. (3 cr; A-F only. Prereq- #) Global studies topics, locally in the Twin Cities and Minnesota, and internationally through linked communication with classes at cooperating universities in other countries. Students communicate with counterparts abroad through e-mail to develop comparative/interactive elements. Possible topics: role of river in local history, grain storage/processing, manufacturing/trade, growth of metropolitan area.

GLOS 5602. Other Worlds: Globality and Culture. (3 cr; A-F only. Prereq-[3101, 3144, grad student] or #) Interconnectedness of world. Considering not one world, but many. Colonialism, consumption, diasporic conditions, global media, nationalism, supra-national governance. How globality is experienced/contested locally/specifically.

GLOS 5603. Socialist/Post-socialist Transformations. (3 cr; A-F only. §HIST 5251) Transformations underway in post-socialist societies of Eastern Europe, former Soviet Union. Ramifications of abandonment of state socialism, introduction of market relations. Effect of former system, new market system on cultural institutions/identities.

GLOS 5643. Colonialism and Culture. (3 cr; A-F only. §ANTH 5043) Making of culture as colonial/anthropological object of knowledge. Relationship between colonial knowledge/formation of academic disciplines (especially anthropology). Colonial/postcolonial transformations of colony, nation, and metropole.

GLOS 5801. International Development: Critical Perspectives on Theory and Practice. (3 cr; A-F only. Prereq—Admission to MSID prog, grad student) Interdisciplinary approaches to development. Assumptions, competing paradigms, analysis of policies, projects, problems. Globalization, societal crisis, indigenous alternatives to dominant paradigm. Partially taught in separate sections to deepen understanding of particular topic (e.g., environment, health, education).


GLOS 5803. MSID Country Analysis. (3 cr; A-F only. Prereq—Admission to MSID prog, grad student) Multidisciplinary study of host country. Emphasizes social sciences and history, especially concepts/information regarding development issues.

GLOS 5805. Community Internships in the Global South. (3 cr. Prereq—Admission to MSID prog, grad student) Grassroots internship with a host-country development agency or project through Minnesota Studies in International Development. Community characteristics, development strategies/problems, organizational structure/culture, cross-cultural communication issues.

GLOS 5806. Topics: Case Studies in International Development. (3 cr; A-F only. Prereq—Admission to MSID prog, grad student) Development issues illustrated in students. local-level projects through MSID. Focuses on a particular sector as it relates to development of country. Sample topics: environment and development; health and development; education, literacy, and development; women and development.

GLOS 5807. Applied Field Methods. (3 cr; A-F only. Prereq—Admission to MSID program) Application of selected field research methods in rural/urban settings in Asia, Africa, and Latin America. Analysis of practical, ethical, and theoretical issues raised through small field assignments and individual research projects.

GLOS 5808. MSID Directed Research. (3 cr; A-F only. Prereq—Admission to MSID prog, grad student) Research project based on field work in Ecuador, India, Kenya, or Senegal through Minnesota Studies in International Development (MSID).

GLOS 5809. Advanced International Development Internship. (1 cr) Study abroad course for Minnesota Studies in International Development.

GLOS 5900. Topics in Global Studies. (1-4 cr [max 4 cr]) Proseminar. Selected issues in global studies. Topics specified in Class Schedule.

GLOS 5910. Topics in East Asian Studies. (1-3 cr [max 3 cr]) Description varies with topic title.

GLOS 5920. Topics in European Studies. (1-3 cr) Description varies with topic title.

GLOS 5930. Topics in Latin American Studies. (3 cr) Description varies with topic title.

GLOS 5940. Topics in Middle Eastern Studies. (3 cr) Description varies with topic title.

GLOS 5950. Topics in Russian Area Studies. (3 cr) Description varies with topic title.

GLOS 5960. Topics in South Asian Studies. (3 cr [max 4 cr]) Description varies with topic title.
Course Descriptions

GLOS 5993. Directed Studies. (1-4 cr [max 12 cr]. Prereq—#.
Guided individual reading or study. Open to qualified students for one or more semesters.

GLOS 5994. Directed Research. (1-4 cr [max 12 cr].
Prereq—#.
Qualified students work on a tutorial basis.

Greek (GRK)
Department of Classical and Near Eastern Studies

College of Liberal Arts

GRK 1001. Beginning Classical Greek I. (5 cr)
Introduction to classical Greek.

GRK 1002. Beginning Classical Greek II. (5 cr. Prereq—Grade of at least [C- or S] in 1001 or #)
Greek grammar/syntax. Readings from classical Greek authors, including Herodotus and Aristophanes.

GRK 1111H. Honors Course: Beginning Classical Greek. (3 cr; Prereq—Concurrent registration in 1111H, honors or high ability as indicated by high school transcript)
Intensive Classical Greek covering material normally taught over two semesters.

GRK 1112H. Honors Course: Classical Greek, Recitation. (3 cr. Prereq—#1111H, honors or high ability as indicated by high school transcript)
Drills, composition exercises.

GRK 3111. Intensive Classical Greek. (3 cr. Prereq—Enrollment 3112; previous exper in another foreign language desirable)
Intensive introduction to classical Greek covering two semesters of material in one semester. Undergraduates in this course must also register for 3112 when taking this class.

GRK 3112. Intensive Classical Greek. Recitation. (3 cr. Prereq—#3111; previous exper in another foreign language desirable)
Drills and composition exercises to help students learn classical Greek. Students must also register for 3111 when taking this course.

GRK 3113. Intermediate Greek Prose. (4 cr. A-F only.
Prereq—Grade of at least [C- or S] in 3112 or #)
Readings in classical Greek prose texts by one or more authors (e.g., Plato, Lysias, Xenophon, Herodotus). Review of grammar/morphology.

GRK 3114. Ionic Authors. (4 cr. Prereq—#3113 or #)
Students progress from intermediate to advanced Greek reading while exploring the world of Herodotus and Homer.

GRK 3120. Greek New Testament. (3 cr [max 6 cr].
Prereq—Grade of at least [C- or S] in 3113 or #)

GRK 3300. Intermediate Greek Poetry. (4 cr. Prereq—Grade of at least [C- or S] in 3113 or #)
Readings in ancient Greek poetry. Introduction to Greek meter. Homer and tragedy offered in alternate years.

GRK 3310. Advanced Undergraduate Greek: Oratory. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
One or more appropriate authors studied during each course offering.

GRK 3320. Advanced Undergraduate Greek: Tragedy. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
Advanced reading in Greek tragedy.

GRK 3330. Advanced Undergraduate Greek: Comedy. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
Advanced readings in Greek comedy.

GRK 3340. Advanced Undergraduate Greek: History. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
Advanced readings from the Greek historians; traditions of Greek historiography.

GRK 3350. Advanced Undergraduate Greek: Philosophy. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
Read one or more works of Plato or Aristotle in the original Greek and find out what they really mean. Texts vary with each offering.

GRK 3360. Advanced Undergraduate Greek: Religious Texts. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
Reading and discussion of various religious texts from Greek antiquity. Selections vary with each course offering.

GRK 3370. Advanced Undergraduate Greek: Epic. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
Reading of classical Greek epic on an advanced level.

GRK 3380. Advanced Undergraduate Greek: Lyric. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
Selections from Greek lyric poets.

GRK 3390. Advanced Undergraduate Greek: Romance. (3 cr. Prereq—#3114 or 3 years HS Greek or #)
Selections from the Hellenistic Romances.

GRK 3440. Advanced Undergraduate Greek: Later Greek Authors. (3 cr [max 9 cr]. Prereq—#3114 or 3 years HS Greek or #)
Selected topics in later Greek literature, especially Byzantine prose.

GRK 3450. Advanced Undergraduate Greek: Classical Authors. (3 cr [max 9 cr]. Prereq—#3114 or 3 years HS Greek or #)
Selected topics in classical Greek literature; topics specified in Class Schedule.

GRK 3951W. Major Project. (4 cr. Prereq—#(Greek-Latin or Greek major), three 300 level courses. #, #)
Research project using documents and other sources from the ancient world. Students select project in consultation with a faculty member, who directs the research/writing.

GRK 3960H. Honors Course: Advanced Undergraduate Greek Reading. (3 cr [max 12 cr]. Prereq—Enroll in honors program or high ability as indicated by transcript)
Student attends Greek 33xx, 3440, 3450 and does additional work for honors credit.

GRK 3993. Directed Studies. (1-4 cr [max 4 cr])

GRK 5012. Prose Composition. (3 cr. Prereq—Grad student or #)
Moving step by step through ancient Greek grammar, starting with simple sentences and progressing to complex ones. Course ends with students translating short passages of modern English prose into Greek.

GRK 5013. Advanced Composition. (3 cr. Prereq—Grad student or #)
English-to-Greek verse composition or writing styles of individual Greek authors.

GRK 5032. Text Criticism. (3 cr. Prereq—Grad student or #)

GRK 5121. Biblical and Patristic Greek. (3 cr. Prereq—Grad student or #)
Septuagint, Philo, Josephus, New Testament, Apostolic Fathers, and other patristic literature to 5th century CE. Reading/discussion of selected texts in major genres.

GRK 5310. Greek Literature: Oratory. (3 cr [max 9 cr].
Prereq—Grad student or #)
One or more authors.

GRK 5320. Greek Literature: Tragedy. (3 cr [max 9 cr].
Prereq—Grad student or #)
Reading of Greek tragedy.

GRK 5330. Greek Literature: Comedy. (3 cr [max 9 cr].
Prereq—Graduate student status or instructor consent)
Readings in Greek comedy.

GRK 5340. Greek Literature: History. (3 cr [max 9 cr].
Prereq—Grad student or #)
Readings from Greek historians. Traditions of Greek historiography.

GRK 5350. Greek Literature: Philosophy. (3 cr. Prereq—Grad student or #)
Readings from one or more works of Plato or Aristotle in original Greek. Selections vary.

GRK 5360. Literature: Religious Texts. (3 cr [max 9 cr].
Prereq—Grad student or #)
Reading/discussion of religious texts from Greek antiquity, such as Homeric Hymns, cultic verse, aretalogy, sacred tales, oracle texts.

GRK 5370. Greek Literature: Epic. (3 cr [max 9 cr].
Prereq—Grad student or #)
Reading classical Greek epic.

GRK 5380. Greek Literature: Lyric. (3 cr [max 9 cr].
Prereq—Grad student or #)
Selections from Greek lyric poets.

GRK 5390. Greek Literature: Romance. (3 cr [max 9 cr].
Prereq—Grad student or #)
Selections from Hellenistic Romances of, e.g., Chariton, Longus.

GRK 5440. Greek Literature: Later Authors. (3 cr. Prereq—Grad student or #)
Selected topics in later Greek literature, especially Byzantine prose.

GRK 5450. Greek Literature: Classical Authors. (3 cr [max 9 cr].
Prereq—Grad student or #)
Selected topics in classical Greek literature. Topics specified in Class Schedule.

GRK 5621. GRK Paleography. (3 cr. Prereq—Grad student or #)
Analysis of various hands used in Greek manuscripts with attention to date/provenance. History of transmission of Greek literature.

GRK 5715. Introduction to the Historical-Comparative Grammar of Greek and Latin. (3 cr [max 5 cr].
Prereq—Grad student or #)
Historical/comparative grammar of Greek/Latin, from their Proto-Indo-European origins to classical norms.

GRK 5716. History of Greek. (3 cr. Prereq—Grad student or #)
Reading and formal analysis of documents illustrating evolution of Greek language from Mycenaean to modern times.

GRK 5993. Directed Studies. (1-4 cr [max 18 cr].
Prereq—Grad student or #)
Guided individual reading or study.

GRK 5994. Directed Research. (1-12 cr [max 18 cr].
Prereq—Grad student or #)
Supervised original research on topic chosen by student.

GRK 5996. Directed Instruction. (1-12 cr [max 20 cr].
Prereq—Grad student or #)
Supervised teaching internship.

Health Informatics (HINF)
Department of Laboratory Medicine and Pathology
Medical School

HINF 5430. Health Informatics I. (4 cr; A-F only)

HINF 5431. Health Informatics II. (4 cr; A-F only)

HINF 5436. Seminar. (1 cr; S-N only)
Presentation and discussion of research problems, current literature and topics of interest in Health Informatics.

For definitions of course numbers, symbols, and abbreviations, see page 300.
### Health Systems Management (HSM)

**College of Continuing Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSM 3501</td>
<td>Clinical Research Concepts and Practice</td>
<td>3 cr</td>
<td>A-F only; Prereq-College algebra. Research process. Focuses on health science applications. Statistics (descriptive, inferential). Research study design, problem statement and protocol development, hypothesis development, feasibility, sampling methods/instruments, data management, data analysis/interpretation, dissemination of research.</td>
</tr>
<tr>
<td>HSM 3521</td>
<td>Health Care Delivery Systems</td>
<td>3 cr</td>
<td>A-F only; Health care (HC) delivery systems, health economics, third-party/public reimbursement, current trends in HC organizations/management/administration. Regulations, standards, quality assurance, accreditation, current ethical issues. Implications for HC providers/professionals, patients/families, communities, international health.</td>
</tr>
<tr>
<td>HSM 4501</td>
<td>Writing for the Health Professions</td>
<td>3 cr</td>
<td>A-F only; How to critically review medical literature and present research data. Scientific method, logic, systematic approach, objective analysis. Students support a hypothesis using research of previously conducted work and present data in graphic/narrative form according to professional standards.</td>
</tr>
<tr>
<td>HSM 4541</td>
<td>Health Care Finance</td>
<td>3 cr</td>
<td>A-F only; General principles of financial management for health care industry. Operational knowledge of financial management theory, esp., how hospitals and their departments develop/balance operating/capital budget for business growth/development. Governmental policies, procedures, and ethical issues controlling the health care industry.</td>
</tr>
<tr>
<td>HSM 4561</td>
<td>Health Care Administration and Management</td>
<td>3 cr</td>
<td>A-F only; Background/skills in business/administrative aspects of health care. Applications of business theory to medical settings, including organization models, reimbursement methodologies, information systems, staff-scheduling, employee evaluation, accreditation agencies, productivity management, budget planning, and group leadership.</td>
</tr>
<tr>
<td>HSM 4581</td>
<td>Teaching in the Health Care Setting</td>
<td>3 cr</td>
<td>A-F only; Basic components of contemporary learning theory. How to design teaching strategies, evaluate educational outcomes. Evaluation of educational needs, development of curriculum, application of various instructional methods, assessment of learning. Works with allied health practitioners, patients, and families.</td>
</tr>
</tbody>
</table>

### Hebrew (HEBR)

**Department of Classical and Near Eastern Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>HEBR 1001</td>
<td>Beginning Hebrew I</td>
<td>5 cr</td>
<td>HEBR 4001. For beginners whose goal is biblical or post-biblical Jewish studies, or modern Israeli Hebrew. Leads to speaking, listening, comprehension, and reading/writing Hebrew. Emphasizes communication proficiency. Cultural materials are incorporated.</td>
</tr>
<tr>
<td>HEBR 1002</td>
<td>Beginning Hebrew II</td>
<td>5 cr</td>
<td>HEBR 4002. Prereq-Grade of at least C- or S in [1001 or 4001] or # Continuation of 1001. Leads to speaking, listening, comprehension, reading, and writing Hebrew. Emphasizes communication proficiency. Cultural materials.</td>
</tr>
<tr>
<td>HEBR 1101</td>
<td>Beginning Biblical Hebrew I</td>
<td>5 cr</td>
<td>HEBR 4104. Basic grammar/syntax, preparatory to reading simple narrative texts in Bible. Multiple approaches to problems/issues in biblical scholarship.</td>
</tr>
<tr>
<td>HEBR 1102</td>
<td>Beginning Biblical Hebrew II</td>
<td>5 cr</td>
<td>HEBR 4105. Prereq-Grade of at least C- or S in [1101 or 4104] or # Progression to more sophisticated reading of narrative, prophetic, and legal texts. Presentation/discussion of multiple approaches to problems/issues in biblical scholarship.</td>
</tr>
<tr>
<td>HEBR 3011</td>
<td>Intermediate Hebrew I</td>
<td>5 cr</td>
<td>Prereq-Grade of at least C- or S in [1002 or 4002] or # Prepares students for CLA language requirement. Speaking, reading, writing, and comprehension of modern Hebrew. Students read/discuss prose, poetry, news, and film. Important features of biblical/classical Hebrew. Taught primarily in Hebrew.</td>
</tr>
<tr>
<td>HEBR 3012</td>
<td>Intermediate Hebrew II</td>
<td>5 cr</td>
<td>Prereq-Grade of at least C- or S in 3011 or # Extensive reading of modern Hebrew prose selections. Students discuss poetry, newspaper, film, and TV in Hebrew. Israeli cultural experiences. Home composition, listening comprehension, speaking skills, and preparation for proficiency exams. Biblical prose, simple poetic texts. Taught in Hebrew.</td>
</tr>
<tr>
<td>HEBR 3090</td>
<td>Advanced Modern Hebrew</td>
<td>3 cr</td>
<td>Prereq-3012 or # Preparation to read various kinds of authentic Hebrew texts and to develop higher levels of comprehension/speaking. Conducted entirely in Hebrew. Emphasizes Modern Israeli Hebrew. Introduction to earlier genres. Grammar, widening vocabulary. Contemporary short fiction, essays, articles on cultural topics, films, Hebrew Internet sites, TV.</td>
</tr>
<tr>
<td>HEBR 3100</td>
<td>Intermediate Biblical Hebrew I</td>
<td>4 cr</td>
<td>Prereq-Grade of at least C- or S in [1102 or 4105] or # Text of Hebrew Bible. Basic research tools/comments. Close reading of narrative biblical texts. Reading fluency, methods of research in biblical studies.</td>
</tr>
<tr>
<td>HEBR 3101</td>
<td>Intermediate Biblical Hebrew I</td>
<td>4 cr</td>
<td>Prereq-Grade of at least C- or S in 3101 or # Text of Hebrew Bible. Basic research tools/comments. Close reading of narrative biblical texts. Reading fluency, methods of research in biblical studies.</td>
</tr>
<tr>
<td>HEBR 3102</td>
<td>Intermediate Biblical Hebrew I</td>
<td>4 cr</td>
<td>Prereq-Grade of at least C- or S in [1102 or 4105] or # Text of Hebrew Bible. Basic research tools/comments. Close reading of narrative biblical texts. Reading fluency, methods of research in biblical studies.</td>
</tr>
</tbody>
</table>

**Topics in Classical and Biblical Hebrew**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBR 3200</td>
<td>Advanced Classical Hebrew</td>
<td>3 cr</td>
<td>HEBR 5200. Prereq-3072 or 3102 or # In-depth reading, analysis, and discussion of classical Hebrew texts. Grammar, syntax. Introduction to text-criticism, history of scholarship, and scholarly tools. Format varies between survey of themes (e.g., law, wisdom, poetry) and extended concentration upon specific classical texts.</td>
</tr>
<tr>
<td>HEBR 3300</td>
<td>Post-Biblical Hebrew Second Temple Period</td>
<td>3 cr</td>
<td>Prereq-3102 or # Readings in late-/post-biblical Hebrew literature of Persian, Hellenistic, and early Roman periods (e.g., Chronicles, Ezra-Nehemiah, Ecclesiastes, Daniel, Dead Sea Scrolls, apocrypha, pseudepigrapha). Focuses on historical development of Hebrew language/literature in relation to earlier biblical sources.</td>
</tr>
<tr>
<td>HEBR 3400</td>
<td>Rabbinic Texts</td>
<td>3 cr</td>
<td>Prereq-3012 or 3102 or # Language, idiom, and literary forms of classical Rabbinic sources in Hebrew. Selections drawn from legal, homiletical, and narrative texts (Mishnah, Tosefta, Talmud, Midrash). Original socio-historical/cultural background of Rabbinic literature, its enduring religious significance.</td>
</tr>
<tr>
<td>HEBR 3511</td>
<td>Directed Instruction</td>
<td>1-4 cr</td>
<td>Prereq-# For students interested in careers in Hebrew education. Observe and discuss classes. Gradually increased participation in preparing and presenting instructional materials to a beginning Hebrew class. Evaluation of materials, teaching techniques. Seminars with instructor and staff on language teaching issues.</td>
</tr>
<tr>
<td>HEBR 3990</td>
<td>Topics in Hebrew Studies</td>
<td>1-4 cr</td>
<td>Prereq-# A Historical, linguistic, literary, religious, or humanistic study of Hebrew society and culture. Approach and method of study varies with topic.</td>
</tr>
<tr>
<td>HEBR 3992</td>
<td>Directed Studies</td>
<td>1-4 cr</td>
<td>Prereq-# A Guided individual reading or study.</td>
</tr>
<tr>
<td>HEBR 4002</td>
<td>Beginning Hebrew II</td>
<td>3 cr</td>
<td>HEBR 1002. Prereq-Grade of at least C- or S in [1001 or 4001] or # Speaking, listening comprehension, reading/writing Hebrew. Emphasizes communication proficiency. Cultural materials. Meets with 1002.</td>
</tr>
<tr>
<td>HEBR 4111</td>
<td>Intermediate Hebrew I</td>
<td>3 cr</td>
<td>Prereq-Grade of at least C- or S in [1002 or 4002] or # Prepares students for CLA language requirement. Speaking, reading, writing, and comprehension of modern Hebrew. Taught primarily in Hebrew.</td>
</tr>
</tbody>
</table>
HEBR 4105. Basics of Biblical Hebrew II. (3 cr. §HEBR 1102. Prereq—Grade of at least C- or S in [1101 or 4104] or #) Progression to more sophisticated reading of narrative, prophetic, and legal texts. Presentation/ discussion of multiple approaches to problems/issues in biblical scholarship. Meets with 1105.

HEBR 4106. Intermediate Biblical Hebrew I. (3 cr. §HEBR 4105. Prereq—Grade of at least C- or S in [1102 or 4115] or #) Text of Hebrew Bible. Basic research tools/ commentaries. Close reading of narrative biblical texts. Reading fluency, methods of research in biblical studies. Meets with 3101.

HEBR 4107. Intermediate Biblical Hebrew II. (3 cr. §HEBR 4106. Prereq—Grade of at least C- or S in 3101 or #) Text of Hebrew Bible. Basic research tools/ commentaries. Close reading of narrative biblical texts. Reading fluency, methods of research in biblical studies. Meets with 3102.

HEBR 5090. Advanced Modern Hebrew. (3 cr [max 18 cr]. Prereq—2012 or #) Preparation to read various kinds of authentic Hebrew texts and to develop higher levels of comprehension/speaking. Conducted entirely in Hebrew. Emphasizes Modern Israeli Hebrew. Introduction to earlier genres. Grammar, widening vocabulary. Contemporary short fiction, essays/articles on cultural topics, films, Hebrew Internet sites, TV.

HEBR 5200. Advanced Classical Hebrew. (3 cr [max 18 cr]. §HEBR 5200. Prereq—[3 sem of biblical Hebrew, 5 sem of modern Hebrew] or #) In-depth reading, analysis, and discussion of classical Hebrew texts. Grammar, syntax. Introduction to text/criticism, history of scholarship, and scholarly tools. Format varies between survey of themes (e.g., law, wisdom, poetry) and extended concentration upon specific classical texts.

HEBR 5300. Post-Biblical Hebrew: Second Temple Period. (3 cr [max 18 cr]. §HEBR 5300. Prereq—[Grad student or #]) Readings in late-/post-biblical Hebrew literature of Persian, Hellenistic, and early Roman periods (e.g., Chronicles, Ezra-Nehemiah, Ecclesiastes, Daniel, Dead Sea Scrolls, apocrypha, pseudepigrapha). Focuses on historical development of Hebrew language and literature in relation to earlier biblical sources.


HEBR 5990. Topics in Hebrew Studies. (1-4 cr [max 12 cr]. §HEBR 5990. Prereq—Grad student or #) Historical, linguistic, literary, religious, or humanistic study of Hebrew society/culture. Approach/method of study varies with topic.

HEBR 5992. Directed Readings. (1-4 cr [max 12 cr]. §HEBR 5992. Prereq—2012 or #) Guided individual reading or study.

HNDI 1001. Introduction to Conversational Hindi. (3 cr; A-F only) Advanced grammatical structures, oral forms, new vocabulary reinforced from lessons around everyday life situations. Oral/written drills, reading for comprehension, audio-visual work.

HNDI 1015. Accelerated Beginning Hindi. (5 cr) Aspects of linguistic performance: speaking, reading, writing, listening. Cultural/linguistic literacy about South Asia and, in particular, India. Emphasizes individual learning styles/preferences for students to understand/retain information.


HNDI 1101. Beginning Hindi. (5 cr. §HNDI 4001) Basic listening, speaking, reading, and writing skills. Emphasis on development of communicative competence.

HNDI 1102. Beginning Hindi. (5 cr. §HNDI 4002. Prereq—1101) Basic listening, speaking, reading, and writing skills. Emphasizes communicative competence.

HNDI 3101. Beginning Hindi. (5 cr) Basic listening, speaking, reading, and writing skills. Emphasis on development of communicative competence.

HNDI 3102. Beginning Hindi. (5 cr) Basic listening, speaking, reading, and writing skills. Emphasis on development of communicative competence.

HNDI 3131. Intermediate Hindi. (5 cr. §HNDI 4003. Prereq—1101 or #) Development of reading, writing, speaking, and listening skills. Grammar review, some basic compositions and oral presentations.

HNDI 3132. Intermediate Hindi. (5 cr. §HNDI 4004. Prereq—3131 or #) Development of reading, writing speaking, and listening skills. Grammar review, some basic compositions and oral presentations.

HNDI 3290. Hindi Language Teaching Tutorial. (1 cr [max 2 cr. Prereq—Grad of A in 4162]) Students tutor beginning students of Hindi and are part of department’s Hindi language team.

HNDI 4001. Beginning Hindi. (3 cr. §HNDI 1101. Prereq—passing score on GMT in another language or grad student) Listening, speaking, reading, and writing skills. Emphasizes development of communicative competence. Meets with 1101.

HNDI 4002. Beginning Hindi. (3 cr. §HNDI 1102. Prereq—[4001, passing score on GMT in another language or grad student]) Listening, speaking, reading, and writing skills. Emphasizes development of communicative competence. Meets with 1102.

HNDI 4003. Intermediate Hindi. (3 cr. §HNDI 3131. Prereq—4002, [passing score on GMT in another language or grad student]) Reading, writing, speaking, and listening skills. Grammar review, basic compositions, oral presentations. Meets concurrently with 3131.

HNDI 4004. Intermediate Hindi. (3 cr. §HNDI 3132. Prereq—4003, [passing score on GMT in another language or grad student]) Reading, writing, speaking, and listening skills. Grammar review, basic compositions, oral presentations. Meets concurrently with 3132.

HNDI 4161. Advanced Hindi. (4 cr. Prereq—3132 or #) Continued emphasis on the development of communication skills, i.e., the ability to comprehend both written and spoken texts, and to speak, read, and write in Hindi beyond the intermediate level.

HNDI 4162. Advanced Hindi. (4 cr. Prereq—4161 or #) Continued emphasis on the development of communication skills, i.e., the ability to comprehend both written and spoken texts, and to speak, read, and write in Hindi, beyond the intermediate level.

HNDI 5040. Readings in Hindi Texts. (2-4 cr [max 12 cr]; A-F only. Prereq—4162 or equiv or #) Students read authentic materials of various types to improve reading/speaking ability. Topics specified in Class Schedule.

HNDI 5710. Topics in Hindi Language, Literature, and Culture. (4-5 cr [max 5 cr]) Topics in Hindi literature or the linguistic structure of Hindi.

HNDI 5990. Directed Research. (3-5 cr [max 5 cr]. Prereq—#) Guided individual reading or study of modern Hindi texts.

History (HIST) Department of History

College of Liberal Arts


HIST 1012W. World History: The Age of Global Contact. (4 cr. Prereq—[Fr or soph] or jr or sr, non-Hist mjr only) Case study approach to world history from 1450 to 1920s. Comparisons of and connections among various cultures. Emphasizes analyzing primary documents to show how historical knowledge is produced. Case studies. Web-enhanced.

HIST 1012W. World History: The Age of Global Contact. (4 cr. Prereq—[Fr or soph] or jr or sr, non-Hist mjr only) Case study approach to world history from 1450 to 1920s. Comparisons of and connections among various cultures. Emphasizes analyzing primary documents to show how historical knowledge is produced. Web-enhanced course.


HIST 1018. World History: The Age of Global Contact. (3 cr. §HIST 1012V) Cautions approach to world history from 1450 to 1920s. Comparisons of and connections among various cultures. Emphasizes analyzing primary documents to show how historical knowledge is produced. Course is Web-enhanced.


HIST 1026. Western Civilization from its Origins to ca 1500. (3 cr. §HIST 1031V) Western civilization from its origins in ancient Middle East to Europe in 1500. Law, religion, governments, history of ideas, social organization.

HIST 1027. Western Civ From 1500 to Present. (3 cr. §HIST 1032V) Role of European civilization in world history from early 16th century to present. Broad chronological periods/themes.

HIST 1031V. Honors: Survey of Western Civilization From its Origins to ca 1500. (4 cr. Prereq—Fr or soph, honors student) Development of western civilization, from its origins in ancient Middle East to Europe in 1500. Law, religion, government, history of ideas, social organization.

HIST 1032V. Honors: Western Civilization, From Its Origins to ca 1500. (4 cr. Prereq—Fr or soph [any] or [jr or sr, non-Hist mjr only]) Western civilization, from its origins in ancient Middle East to Europe in 1500. Law, religions, governments, history of ideas, social organization.

HIST 1032W. Honors: Western Civilization, From 1500 to Present. (4 cr. §HIST 1027. Prereq—Fr or soph, honors student) Role of European civilization in world history, from early 16th century to present. Broad chronological periods/themes.

HIST 1032W. Western Civilization, From 1500 to Present. (4 cr. Prereq—Fr or soph [any] or [jr or sr, non-Hist mjr only]) Role of European civilization in world history, from early 16th century to present. Broad chronological periods/themes.

HIST 1301W. U.S. History to 1877. (3 cr. §HIST 1301V; HIST 1301W) Issues, events, and ideas in the social, political, and intellectual history of the United States, from colonial era through Civil War and reconstruction. Colonization, revolution, national expansion, religion, reform movements, slavery, immigration, industrialization, gender roles, and labor relations.

HIST 1301V. U.S. History to 1877. (4 cr. §HIST 1301V, HIST 1301W. Prereq—Fr or soph, honors) Issues, events, and ideas in the social, political, and intellectual history of the United States, from colonial era through Civil War and reconstruction. Colonization, revolution, national expansion, religion, reform movements, slavery, immigration, industrialization, gender roles, and labor relations.

HIST 1302W. U.S. History, From 1865 to Present. (4 cr. §HIST 1302V, HIST 1302W. Prereq—Fr or soph [any] or [jr or sr, non-Hist mjr only]) Forces that shaped emergence of modern America, from end of Civil War to present. Shaping of the industrial/post-industrial economy. Work and everyday life. Race relations and immigration. Popular culture and gladiatorial games of Roman Empire. Wider significance of these spectacles in their impact on political, social, and economic life of the societies that supported them.

HIST 1302V. U.S. History, From 1865 to Present. (4 cr. §HIST 1302V, HIST 1302W. Prereq—Fr or soph) Forces that shaped emergence of modern America, from end of Civil War to present. Shaping of the industrial/post-industrial economy. Work and everyday life. Race relations and immigration. Popular culture and gladiatorial games of Roman Empire. Wider significance of these spectacles in their impact on political, social, and economic life of the societies that supported them.

HIST 1307. American History to 1877. (3 cr. §HIST 1301V, HIST 1301W) Issues, events, and ideas in the social, political, and intellectual history of the United States, from colonial era through Civil War and reconstruction. Colonization, revolution, national expansion, religion, reform movements, slavery, immigration, industrialization, gender roles, and labor relations.

HIST 1308. U.S. History: From 1865 to Present. (3 cr. §HIST 1302V, HIST 1302W) Forces that shaped emergence of modern America, from end of Civil War to present. Shaping of the industrial/post-industrial economy. Work and everyday life. Race relations and immigration. Popular culture and gladiatorial games of Roman Empire. Wider significance of these spectacles in their impact on political, social, and economic life of the societies that supported them.

HIST 1901. Introduction to Medieval History. (3 cr) Europe from decline of Rome to early Renaissance. Politics, institutions, society, economy, and culture of Middle Ages.

HIST 3151W. British History to the 17th Century. (4 cr) The making of the English nation: Anglo-Saxons and Normans; development of English law and Parliament; Reformation and constitutional crisis; early Wales, Scotland, and Ireland.


HIST 3211. History of Sexuality in Europe. (3 cr; A-F only) History of sexuality in Europe, from ancient Greece to present. Plato’s philosophy of love, St. Augustine’s conception of sin, prostitution in 15th century, sexual science of Enlightenment. Industrial revolution and homosexuality. Rape scares and imperialism. Eugenics and Nazi Germany.

HIST 3212. Dissident Sexualities in U.S. History. (3 cr; A-F only, Prereq—Fr or soph) History of sexuality in the United States. Emphasizes sexualities that have challenged dominant social/cultural norms. Development of transgender, bisexual, lesbian, and gay identities/communities. Politics of sex across lines of race/ethnicity. Historical debates over controversial practices, including sex work.

HIST 3244. History of Eastern Europe. (3 cr) History of the peoples of the region from their origins to modern times, culture and society in the Middle Ages; Golden Age of Eastern Europe; loss of independence; nationalism and formation of national states; fascism and World War II, Jews in Eastern Europe; communist and post-communist periods.

HIST 3271. The Viking World: Story, History, and Archaeology. (3 cr. §HUM 3282) Viking society and expansion of Viking influence abroad. Viking impact on Western Europe; interactions with Slavic lands; settlement of North Atlantic islands; and Western Europe’s impact on Scandinavian lands. Analyzes archaeological, historical, linguistic, and numismatic evidence.

HIST 3281. European Intellectual History: The Early Modern Period, 1400-1750. (3 cr. §HUM 3281) First of a two-semester course. European thought in its historical/cultural context. Emphasizes development of philosophical/scientific thought, its relation to thinking about the individual and the community. Readings are from original sources.

HIST 3282. European Intellectual History: The Modern Period, 1750-Present. (3 cr. §HUM 3282) Second of a two-semester course. European thought in its historical/cultural context. Emphasizes development of philosophical/scientific thought, its relation to thinking about the individual and the community. Readings are from original sources.

HIST 3347. Women in Early and Victorian America: 1600-1890. (3 cr. §WOST 3407) The varied experiences of American women 1600-1890. Topics include women’s involvement in the disposition of native peoples, westward expansion, slavery, industrialization, reform, revolution, and transformations in family life and sexuality.

HIST 3348. Women in Modern America. (3-4 cr. §WOST 3408) History of women in the United States from 1890 to the present. Explores women’s changing roles in politics, the labor force, the family, and popular culture.

HIST 3401W. Early Latin America to 1825. (4 cr; A-F only. \( 	ext{JLGS} \) 3401W) American Indian societies before contact. Social, cultural, and economic interactions among Native Americans, African slaves, Europeans, and people of mixed race during colonial period (c. 1492-1825).

HIST 3402W. Modern Latin America to Present. (4 cr. \( 	ext{JLGS} \) 3402W) National and continental period 1825 to present with emphasis on social, cultural, political, and economic change.


HIST 3421. The World and the West 1400-1900. (3 cr; A-F only. Prereq—one or more of world history or Western civilization recommended) Survey of the political, economic, religious, and cultural interaction between the peoples of Europe and the peoples of Africa, the Americas, and Asia, with reference to perceptions of alien cultures by both sides.

HIST 3423. Central American Revolutions. (3 cr. \( 	ext{CHIC} \) 3423) Social, political and economic issues that have shaped Central American history for nearly two centuries. Focuses on influences of colonial histories, capitalist development, ethnic/racial conflict, foreign intervention, Catholic Church, civil war throughout region. Readings cover events in Guatemala, Honduras, El Salvador, Nicaragua, Costa Rica, Panama.

HIST 3424. Women and Gender in Latin American History. (3 cr. \( 	ext{CHIC} \) 3424) Changing gender norms in Latin America over time as compared to lives of women and men of diverse classes and ethnic groups. How women responded to their position in society, on a continuum from accommodation to resistance.

HIST 3425. History of Modern Mexico. (3 cr. \( 	ext{CHIC} \) 3425) Mexico from independence to the present: struggles for liberty; equality; ethnicity, gender, and class; economic growth, nationalism, and globalization; urbanization, immigration, demographic transition.

HIST 3427. History of Cuba and Puerto Rico. (3 cr. \( 	ext{CHIC} \) 3427, LAS 3427) Historical development of Cuba and Puerto Rico from pre-Columbian times through Spanish conquest to the present. Conquest and colonization, slavery, Hispanic Caribbean society and culture, Operation Bootstrap, Cuban Revolution.

HIST 3429. Latin American History in Film and Text. (3 cr) Cinematic representations of Latin American in context of other historical/literary narratives. Experiences of Latinos in Hollywood. U.S. films compared with those produced in Latin America. Themes vary (e.g., women, revolution, colonialism).

HIST 3431. Early Africa and Its Global Connections. (4 cr. \( 	ext{AFRO} \) 3431) Survey of African history from earliest times to 1800. Focuses on socioeconomic, political, and cultural development in pre-colonial Africa from ancient Egypt through the era of the trans-Atlantic slave trade.


HIST 3433. Images of Africa. (3 cr) Major themes in African history, from early human development to present. History of western “knowledge” about Africa. Assumptions that have influenced production of African history. Extent to which African history is “packaged” for public consumption inside/outside Africa. How history is used to support modern political agendas.

HIST 3434. History of South Africa to 1910. (3 cr. \( 	ext{AFRO} \) 3204) Introduction to history of South Africa from early humans to arrival of first Dutch settlers at Cape of Good Hope in 1652 to formation of Union of South Africa in 1910.

HIST 3435. History of South Africa from 1910. (3 cr. \( 	ext{AFRO} \) 3205) History of South Africa from union to present. Focuses on issues such as African/Africaner nationalism, structures of apartheid, forced population removals, divestment/sanctions, and post-apartheid era.


HIST 3437. History of East Africa. (3 cr. \( 	ext{AFRO} \) 3437, \( 	ext{AFRO} \) 5437, HIST 5437) Major themes in history of East Africa, from era of early human cultural development to present. Methods that historians use to reconstruct history. Varying interpretations/constructions of history over time.

HIST 3438. History of Women in South Africa. (3 cr. \( 	ext{AFRO} \) 4001) Changing role/status of women in South Africa from pre-colonial era to present. Relationships to political, social, economic development.

HIST 3439. Popular Narratives of the African Past. (3 cr) Diverse ways that ordinary Africans have interpreted/pictured particular events in African history. Different popular depictions of African past, their relationships with academic histories.

HIST 3441. Chicana/o History to 1900. (3 cr. \( 	ext{CHIC} \) 3444, \( 	ext{CHIC} \) 3444, LAS 3441) History of the Mexican people from the 16th through the 19th centuries. Historical theories of colonialism, expansion, economy, assimilation, migration, and settlement; race, class and gender, political, social, and cultural interaction and conflict.

HIST 3442. Chicana/o History: 1900 to Present. (3 cr. \( 	ext{CHIC} \) 3442, LAS 3442) Migration, repatriation, the Bracero program, contemporary Chicana/o politics, the Chicana/o movement, work, society, and culture. Lecture format with 2-3 videos/movies on selected topics. A wide range of reading from texts and articles.

HIST 3444. Chicana and Chicano History: 1821-1945. (3 cr. \( 	ext{CHIC} \) 3444, \( 	ext{HIST} \) 3441, LAS 3441) Experiences of people of Mexican descent in the United States. Important eras in histories of Mexico, the United States, and Mexican Americans. Central role of Chicana/os in U.S. history, culture, and politics.

HIST 3452. African Conservation Histories. (3 cr) Historical roots of conservation in Africa in 19th/20th centuries. Historical context of contemporary laments about Africa’s environmental degradation, older efforts to exploit/control African peoples/resources. Focuses on how Africans have interacted with and managed their lands/resources.


HIST 3461. Introduction to EAST Asia I: The Imperial Age. (3-4 cr [max 4 cr; \( 	ext{EAS} \) 3461]) Comparative survey of early history of China, Japan, Korea, and Vietnam. Early Chinese thought: Diffusion of Confucianism, Buddhism, and other values throughout East Asia. Political and social history of region to 1660.

HIST 3462. Introduction to EAST Asia II: 1600-2000. (3-4 cr [max 4 cr; \( 	ext{EAS} \) 3462]) Formation/decline of early modern Asian empires. Western imperialism/Asian nationalism. Social revolution, economic modernization, and cultural change in China, Japan, Korea, and Vietnam, 1600-2000.

HIST 3464. China in the Song, Yuan, and Ming Dynasties. (3 cr. \( 	ext{EAS} \) 3464, HIST 5464) China during the Song (976-1279), Yuan (1279-1368), and Ming (1368-1644) dynasties; political institutions and social structures. Attention to primary sources and how historians ask and answer questions about the past.

HIST 3465W. China in the Ming and Qing Dynasties. (3 cr. \( 	ext{EAS} \) 3465W, HIST 5465) The political and social history of China from about 1600 until the end of the Qing dynasty in 1911. Topics include ethnicity, daily life, legal structures, city life, and peasantry.

HIST 3467W. State and Revolution in Modern China. (3 cr. \( 	ext{EAS} \) 3467W, HIST 5467) Modern China’s political evolution, including the Taiping Rebellion, Republican Revolution, Rise of Nationalist and Communist Parties, Maoist era; reform under Deng Xiaoping and the emergence of democracy in Taiwan.


HIST 3474. The Rise of Modern Japan: 1850s to 1900s. (3 cr. A-F only. \( 	ext{EAS} \) 3474) The Meiji Revolution from Commodore Perry to the eve of World War I; origins of constitutional monarchy, industrial economy, Western influences, and modern cultural change.
Course Descriptions

HIST 3476. War and Peace in Japan Through Popular Culture. (4 cr; A-F only) Prereq—Some knowledge of modern Japanese history or #) War-related issues in Japan. Animation films, comics from 1940s to 1990s. Mobilization of culture for WWII. Conflict between constitutional pacifism and national security. Japan’s role in cold war and post-cold war worlds.

HIST 3479. 20th Century India. (3 cr; A-F only) Introduction to traditional Chinese cities, their modern transformation. Ideal city plan in Confucian classics compared with physical layout of some major cities. Models about Chinese cities, influence of the models on our understanding of Chinese history/society.

HIST 3485. History of Southeast Asia. (3 cr; A-F only) Origins of civilization, rise of empires such as Angkor, diffusion of Hinduism, Buddhism, Islam, and Christianity. West European intrusion through the imperialist era, rise of nationalism, and the establishment of nation-states.

HIST 3489. Medieval Islam. (3 cr. §ARAB 3541, ARAB 5541, MELC 3541) Islamic legacy in the classical age (800-1400) in the sciences - natural and medical, mathematics, philosophy, and literature, and their transmission to Europe.

HIST 3491. Classical Islamic Civilization. (3 cr. §ARAB 3541) Islamic legacy in the classical age (800-1400) in the sciences - natural and medical, mathematics, philosophy, and literature, and their transmission to Europe.

HIST 3493. Islam: Religion and Culture. (3 cr. §ARAB 3541) Islamic legacy in the classical age (800-1400) in the sciences - natural and medical, mathematics, philosophy, and literature, and their transmission to Europe.

HIST 3500. Survey of the Middle East. (3 cr. §ARAB 3505, §ARAB 5505, MELC 3505) Peoples, lands, and cultures of the Middle East. Historical survey from earliest civilizations to the present.

HIST 3541. Islam in the Catholic Age: ARAB Phase 500 A.D. to 1000 A.D. (3 cr; §ARAB 3541, ARAB 5541, MELC 3541) The Rise of Islam in its Arabic setting. Roles of the prophet, the orthodox and Umayyad caliphs. Development of Islamic state and empire, organizations, institutions, and status of Muslims and non-Muslims.

HIST 3542. Medieval Islam. (3 cr. §ARAB 3542, ARAB 5542, HIST 3542, MELC 3542) Islamic dynasties, Umayyads of Spain, Shiites, assassins, Abbasid Caliphate’s disintegration and rise of Sefat Turks. Sasanian re-emerges, Ikhshidis.


HIST 3544. Arab World 1920 to the Present. (3 cr. §ARAB 3544, ARAB 5544, MELC 3544) Arab world since independence; the struggle for liberation, political stability, development and unification, political structure and conflicts, impact of Arab-Israeli conflict.

HIST 3547. The Ottoman Empire. (3 cr. §ARAB 3547) Founding of Ottoman state/society to empire, 1300 to end of empire in 1920. Lands, institutions, peoples, legacy. Impact on Europe.

HIST 3608W. History of the Catholic Church in the Middle Ages. (3 cr. Prereq-Intro course in European history before 1500 recommended) Religious beliefs of Latin Christianity as officially taught and as received by ordinary folk; organization of the church and its implantation in lay society; relations between Latin Christendom and its neighbors, Orthodoxy and Islamdom.

HIST 3809. Military History of Medieval Western Europe. (3 cr) Concept and conduct of war in Western Europe in the Middle Ages and the relation between the military and society.

HIST 3811. Medieval Cities of Europe: 1000-1500. (3 cr) Evolution of Western European cities from the late Roman town to the early Renaissance city-state.


HIST 3814. Women in Medieval Europe. (3 cr) Women’s role in family, politics, religion, work, and social movements. Representations of women in religious texts, art, literature, scientific studies, and law. Methods/approaches to study of women’s history.

HIST 3815W. Women in European History: 1500 to the Present. (3 cr) Women’s history and gender relations in modern European history. Methods and primary sources for women’s history and the implications of inclusion of women in historical study.

HIST 3816. France in the Middle Ages. (3 cr) Politics, society and culture in medieval France from the end of the Carolingians to the end of the Hundred Years War.

HIST 3818. The Dark Ages Illuminated: Medieval Europe to 1150. (3 cr) Origins of medieval Europe, Germanic and Viking invasions, feudalism, manorialism, Islam, the papacy, monarchies, intellectual developments.

HIST 3819. Chivalry, Crisis, and Revival: Medieval History 1050-1500. (3-4 cr) (max 4 cr) Chivalry and courtly love, crusades, revival of towns and trade, monarchies, religious developments, Black Death, famine, and wars.

HIST 3821. Renaissance Italy: 1200-1550. (3 cr. Prereq–Intro course in European history before 1500 recommended) Political/cultural history of city-states of northern/central Italy, 1200-1550. Emphasizes Florence and Venice. Readings include Dante and Machiavelli.

HIST 3823W. Germany in the Age of Reform. (3 cr. Prereq-General course in European history before 1500 recommended) History of religious reform movements - Lutheran, Calvinist, and Catholic - in the context of German politics, society, and culture; emphasis on primary source readings (written during the period).

HIST 3826. France From the Late 16th Century Through Napoleon: 1594-1815. (3 cr) The evolution of French government, economy, and society in a broad context: monarchical power and its disintegration; Louis XIV at the apex of the Old Regime; the Enlightenment; the French Revolution; and the rise and fall of Napoleon Bonaparte.

HIST 3832. History of Germany; Reformation to Unification: 1500-1871. (3 cr) The Reformation era; warfare and demographic catastrophe of the early 1600s; life in town and country; absolutism; Baroque culture; family life and its transformation; economic crisis; Revolution of 1848; the military path to unification.


HIST 3837. Modern Russia: From Peter the Great to the Present. (3 cr) Political, social, and cultural forces which have shaped modern Russia. Emphasis will be on modernization, attempts at reforms in the imperial and Soviet period, and the dissolution of empires.

HIST 3842. Knights, Peasants, and Bandits in Medieval England. (3 cr) Social history of medieval England from 1066 to 1500. Peasants, nobility, and bourgeoisie, including their economic institutions, living conditions, and entertainments. Legal and illegal ways of coping with economic and social change resulting from plague and wars.


HIST 3852. England Under the Stuarts: 1603-1689. (3 cr) History of England from the accession of James I (1603) to the Glorious Revolution (1689), including political, social, religious, military, and intellectual history.

HIST 3871. Modern Britain: 1783-1867. (3 cr) Britain from the end of the American Revolution to the mid-Victorian age: industrialization and reform.

HIST 3872. Modern Britain Since 1867. (3 cr) Britain from the mid-Victorian age to the present; the growth of democracy, the height and depth of world power.

HIST 3881. Irish History. (3 cr) History of Ireland, primarily modern, with emphasis on politics and Anglo-Irish relations.

HIST 3891W. The British Empire. (3 cr; A-F only) Gain/loss of colonies in Ireland, America, India, Africa. Development of racism, multicultural composition of British society, debates about economic motives for empire, resistance of colonized peoples to conquest/dominion.

HIST 3703W. European Cities: 1300-1800. (3 cr. Prereq—Background in European civilization of late Middle Ages) The historical experience of selected cities in early modern Europe set within the context of ideas about urban formation and development. Key cities are Venice, Florence, Antwerp, Madrid, Seville, Amsterdam, Paris, and London.

HIST 3704W. Daily Life in Europe: 1300-1800. (3 cr) Living conditions and daily life in Europe before the Industrial Revolution. Topics include marriage and family, life at court, nobles, peasants, disease, farming, livestock-raising, urban life, the middle classes, manufacturing, trade, piracy, witchcraft, war, crime, and social deviance.

HIST 3705. From Printing Press to Internet: Media, Communications, and History. (3 cr; A-F only; §GLOS 3605) Print public sphere in 17th, early 18th century. Political conflicts over freedom of press in 18th, 19th century. Emergence of advertising, public relations industries in 20th century. Significance of broadcast, computer network technologies for democratic political systems.

HIST 3707. Social History of Modern Europe. (3 cr) Transformation from traditional agrarian to modern society, 18th to 20th centuries. Social change; history of the family, marriage and sexuality; the roots of nationalism and racism.
<table>
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<tr>
<th>Course Descriptions</th>
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<tbody>
<tr>
<td><strong>HIST 3712. Economic History of Modern Europe.</strong> (3 cr) Long-term rise/transformation of European economy. Emergence of capitalism and spread of economic growth up to WWI. Political economy of growth, instability, and structural change in 20th century.</td>
</tr>
<tr>
<td><strong>HIST 3714. Medieval Spain.</strong> (3 cr) Development of the medieval kingdoms of Spain from Roman times to ca. 1500. Major social, economic, and cultural developments. Christians, Jews, and Muslim interaction. Role of Spain in the beginning of European expansion.</td>
</tr>
<tr>
<td><strong>HIST 3715. Modern Spain: 1500 to the Present.</strong> (3 cr) Ferdinand and Isabella, the Habsburg and Bourbon dynasties, the 20th century Civil War and Franco regime, and into the present. Readings, lectures, films, slides, and music will provide a comprehensive view of a vibrant people and their modern history.</td>
</tr>
<tr>
<td><strong>HIST 3721. 20th-Century Europe From the Turn of the Century to the End of World War II: 1900-1945.</strong> (3 cr) The social, political, and cultural changes and conflicts in Europe from the late 19th century to the end of World War II. The background to WWI, its impact, revolution, the failure of interwar stability, fascism, WWII and its consequences.</td>
</tr>
<tr>
<td><strong>HIST 3722. 20th-Century Europe From the End of World War II to the End of the Cold War: 1945-1991.</strong> (3 cr) The social, economic, political, and cultural impacts of WWII upon Europe; the division of Europe, communist regimes in Eastern Europe, cooperation in Western Europe, impacts of modernization and the end of the Cold War in 1991.</td>
</tr>
<tr>
<td><strong>HIST 3728. Race, Nation, and Genocides in the Modern World.</strong> (3 cr; A-F only) Meaning of the term “genocide.” Particular cases, such as Armenians in the late Ottoman Empire, Jews in the Third Reich, and Muslims in the former Yugoslavia.</td>
</tr>
<tr>
<td><strong>HIST 3729. Nazi Germany and Hitler’s Europe.</strong> (3 cr; A-F only) Comprehensive exploration of Third Reich. Students will examine how the Nazis came to power, transformations of 1930s, imposition of racial politics against Jews/others, nature of total war. Students read historical accounts, memoirs, state documents, view films.</td>
</tr>
<tr>
<td><strong>HIST 3731. Citizens and the State in Modern France From the Revolution of 1789 to Post-de Gaulle: 1789-1991.</strong> (3 cr) A history of the citizen and the state in France from the French Revolution to the present.</td>
</tr>
<tr>
<td><strong>HIST 3735. Politics of Ideas: European Thought in 20th Century Contexts.</strong> (3 cr; A-F only) Development of political ideas/ideologies in 20th century. How to understand ideas in various contexts of their production, dissemination, and appropriation. Students read primarily original political/social philosophical texts that have shaped social, cultural, and political landscape.</td>
</tr>
<tr>
<td><strong>HIST 3748. Austria in the 20th Century.</strong> (3 cr) Austria from Paris Peace Treaties to present. Political instability, social conflict, and economic stagnation between the World Wars. Nazi rule and WWII. Economic miracle, consensus politics, and neutrality after 1945. Austria after Cold War.</td>
</tr>
<tr>
<td><strong>HIST 3767. Eastern Orthodoxy: History and Culture.</strong> (3 cr) Development of the orthodox church in Byzantium, the Islamic Near East, the Slavic world and in the diaspora; impact of orthodoxy on political and cultural institutions, interaction with other Christian and non-Christian communities; orthodox spirituality and aesthetics.</td>
</tr>
<tr>
<td><strong>HIST 3775. History of the European Jews from the Middle Ages to the Present.</strong> (3 cr) Social, economic, and cultural history of the Jewish people in Europe and their interaction with other peoples; history and causes of anti-Semitism; Zionism and assimilation; Chassidism and socialism.</td>
</tr>
<tr>
<td><strong>HIST 3797. History of Population.</strong> (3 cr) History of births, deaths, migration, population size, and population characteristics. Evidence from Europe, the United States, and Latin America with comparative material from Africa and Asia. Methods of historical population analysis and research of historical population data.</td>
</tr>
<tr>
<td><strong>HIST 3800. Topics in Early American History.</strong> (3 cr [max 15 cr]) For advanced undergraduate majors and non-majors. Focus on intensive exploration of particular topics in early American history such as economic history, demographic regimes, social history, intellectual history, regions, slavery, religion, and witchcraft in colonial America.</td>
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<tr>
<td><strong>HIST 3801. The People of Early America: 16th to 18th Centuries.</strong> (3 cr) Multicultural approach to early American history focusing on the interaction of Africans, Europeans, and American Indians who came together to create a new world in North America during the 16th, 17th, and 18th centuries.</td>
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<tr>
<td><strong>HIST 3812. The Civil War and Reconstruction.</strong> (3 cr) United States from 1848 to 1877. Causes of sectional crisis; Southern secession; Lincoln and emancipation; military history; impact of war North and South; Reconstruction efforts to change the Southern life and transform the status of African Americans.</td>
</tr>
<tr>
<td><strong>HIST 3821. United States in the 20th Century to 1945.</strong> (3 cr) American politics and society in the progressive era, the 1920’s, the Great Depression and World War II. Economic reform at home, the challenges of world war abroad, and social change affecting the status of women and racial minorities.</td>
</tr>
<tr>
<td><strong>HIST 3822. United States in the 20th Century Since 1945.</strong> (3 cr) American politics and society in the postwar era, the diplomacy of the Cold War, the civil rights movement, the Vietnam War, cultural clashes in the 1960’s, Watergate, the conservative resurgence, and the end of the Cold War.</td>
</tr>
<tr>
<td><strong>HIST 3834. Law in American Life: Colonial Era to Civil War.</strong> (3 cr; A-F only) Understandings of law/property held by colonists, Indians. Conceptions of relationships among family, community, state held in colonial America; conceptions held today. Law of slavery in colonial era. American Revolution/Constitution. Law, industrialization. Legal legitimacy, federalism, Civil War as constitutional crisis.</td>
</tr>
<tr>
<td><strong>HIST 3837. Minnesota History.</strong> (3 cr) Topics in political/social history of Minnesota and its region in nineteenth/twentieth centuries.</td>
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<tr>
<td><strong>HIST 3842. History of Silicon Valley.</strong> (3 cr; A-F only) Critical, historical examination of birth/development of “Silicon Valley,” the high-tech region around San Jose, California. Myths/ideologies that define Silicon Valley in popular imagination. Deeper history of region. Comparisons with Twin Cities as framework for analysis.</td>
</tr>
<tr>
<td><strong>HIST 3852. U.S. Labor in the 20th Century.</strong> (3 cr) The development of a working class from the preindustrial to an industrial age. Responses of American workers through labor organization, slave resistance, and political reform. The Knights of Labor, the formation of the AFL, and the challenges of Marxism.</td>
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<tr>
<td><strong>HIST 3861. European American; From Immigrants to Ethnicities: 1790-1890.</strong> (3 cr; A-F only) Conditions which contributed to the mass exodus from northern/western Europe during this century as well as the attraction of the United States. Major theme will be how immigrants shaped and in turn were shaped by America.</td>
</tr>
<tr>
<td><strong>HIST 3862. European Americans: 1890-1990.</strong> (3 cr; A-F only) From the 1890s, immigrants came predominantly from southern/eastern Europe. A central theme is the role of immigrants in the transformation of America from a rural agricultural to an urban industrial society.</td>
</tr>
<tr>
<td><strong>HIST 3864. African American History, 1819-1865.</strong> (4 cr; A-F only) AFRO 3864 Importance of dynamics of class, gender, region, and political ideology. Changing nature of race/racialism.</td>
</tr>
<tr>
<td><strong>HIST 3865. African American History, 1865 to Present.</strong> (4 cr; A-F only) AFRO 3865 Integral migrations, industrialization, unionization, Great Depression, world wars, large-scale movements for social/political change.</td>
</tr>
</tbody>
</table>
Course Descriptions

HIST 3866. African American Gender History: 1865-
Present. (3 cr)
Reconciliation between race, gender, and the struggle
for equality. Focuses on African-Americans.
Changing definitions of manhood/womanhood
over the past 130 years. Critical role race and racial
thought have played in these changes. How ethnicity,
class, and sexuality have transformed black gender
experiences.

HIST 3867. Black Women’s History: From Slavery to the
Present. (3 cr)
Introduction to black women’s histories in
America and Atlantic World. How black women
on two continents defined themselves in context of
migration, slavery, colonization, post-colonialism,
and social movements. Meanings, problems, and
possibilities of black womanhood in global era.

HIST 3868. Race, War, and Race Wars in American History.
(3 cr)
Role that race has played in American war history.
Impact that wars have had on race and race relations
in the U.S. and the world. Literature, film.

HIST 3869. Urban American History: Race, Class, Gender,
and Sexuality in Urban America. (3 cr)
History/formation of American metropolitan. Roots of
“urban problem.” Framework for understanding life
in contemporary urban spaces. How ideas about race,
class, gender, and sexuality created/permeated urban
infrastructures and stratified urban populations/
communities.

HIST 3870. Topics in American Indian History. (3 cr. § AMIN
3870)
Designed for advanced undergraduates. Topics
may include social history, oral history, history of
particular regions, political systems, education, and
politics.

HIST 3871. American Indian History: Pre-Contact to 1830.
(4 cr § AMIN 3871)
Introduction to American Indian history from ancient
native America to the removal era. Focuses on the
social, cultural, political, and economic diversity
of Native American peoples and Native American
experiences with European colonialism.

HIST 3872. American Indian History: 1830 to the Present.
(4 cr § AMIN 3872)
Focus on the impact of federal Indian policy on
American Indian cultures and societies, and on American
Indian culture change.

HIST 3874H. Comparative Race and Ethnicity in US
History. (3-4 cr; AF only)
America through its cultural diversity. Changing
notions of “American” national identity/citizenship
from nineteenth century to present. Historical
experiences of Native Americans, African
Americans, Hispanic Americans, European
immigrants, and Asian Americans: How these groups
were defined in relation to each other and in relation
to the nation.

HIST 3877. Asian American History, 1850-Present. (3 cr)
Asian American history and contemporary issues,
from 1850 to the present. Immigration, labor, anti-
Asian movements, women/families, impact of World
War Two, new immigrant/refugee communities, civil
rights, Asian American identity/culture.

HIST 3878. American West. (3 cr)
American West from Mexican-American War
to present. U.S. expansion, Native-Anglo conflict,
migration/immigration. Race, ethnicity, labor,
class, and gender in the West. Business/politics of
“settling” the region.

HIST 3881. History of American Foreign Relations to 1914.
(3 cr)
American involvement in world affairs 1914 to
present. Political, economic, social, and cultural
activities by individuals, groups, and governmental
and non-governmental agencies, participation in
international organizations, commercial and cultural
relations, war and Cold War diplomacy.

HIST 3891. American Military History. (4 cr)
Interaction of geography, politics, society, and
technology in military growth. Influence of military
on American national development 17th-20th
centuries. Expansion/effect of land, sea, and air
forces in 2nd World War and Cold War.

HIST 3900. Topics in Medieval and Modern European
History. (1-4 cr [max 16 cr]. Prereq—Jr or sr or #)
Selected topics in medieval and modern European
history not covered in regular courses. To be taught
as staffing and demand exist.

HIST 3910. Topics in U.S. History. (1-4 cr [max 15 cr].
Prereq—Jr or sr or #)
Selected topics in U.S. history not covered in
regular courses. To be taught as staffing and demand
exist.

HIST 3920. Topics in African History. (1-4 cr [max 16 cr].
Prereq—Jr or sr or #)
Selected topics in African history not covered in
regular courses. To be taught as staffing and demand
exist.

HIST 3930. Topics in Ancient History. (3 cr [max 15 cr].
Prereq—Jr or sr or #)
Selected topics in Near Eastern, Egyptian, Greek,
and Roman History.

HIST 3940. Topics in Asian History. (1-4 cr [max 16 cr].
Prereq—Jr or sr or #)
Selected topics in Asian history not covered in
regular courses. To be taught as staffing and demand
exist.

HIST 3950. Topics in Latin American History. (1-4 cr [max
16 cr]. Prereq—Jr or sr or #)
Selected topics in Latin American history not
covered in regular courses. To be taught as staffing and
demand exist.

HIST 3951H. Junior Honors Seminar. (4 cr. Prereq—History
honors candidacy)
Intended for History honors majors in their junior
year, the course is run as a seminar, with emphasis
on readings and discussion. Weekly sessions focus
on selected topics relating to historical method and
historiography.

HIST 3960. Topics in History. (1-4 cr [max 16 cr].
Prereq—Jr or sr or #)
Selected topics in history not covered in
regular courses and covering more than one geographic
area/time period. To be taught as staffing and demand
exist.

HIST 3970. Supplemental Discussion in History. (1 cr [max
3 cr]. Prereq—Concurrent registration)
Extra discussion section with T.A. Attached to
concurrent 3xxx course.

HIST 3980W. Supplemental Writing in History. (1 cr [max
4 cr; AF only. Prereq—It must take a 3-5 cr 3xxx or 5xxx course
taken concurrently])
May be attached, by agreement of instructor and
students, to any 3xxx or 5xxx course to make a
writing-intensive experience.

HIST 3990. Historical Internship. (1-4 cr [max 4 cr].
Prereq—It)
Internship with a historical society, government,
or community historical organization. Arranged through
and supervised by department.

HIST 3993. Directed Study. (1-16 cr [max 16 cr]. AF only.
Prereq—Pr)-
Guided individual reading or study. Open to qualified
students for one or more semesters.

HIST 3994. Directed Research. (1-16 cr [max 16 cr]. AF only.
Prereq—Pr)
Qualified students work on a tutorial basis.

HIST 4015. African Near East and Egypt: Neolithic to 1500
BCE. (3 cr; A-F only; § AMES 4051)
Prereq—Previous coursework in ancient history recommended.
Lands of Western Asia and Northeast Africa from
Neolithic through Middle Bronze Age.
Interdependent technological/political developments,
such as agriculture, state formation, and writing. Use
of literature/art as vehicles for propagating concepts.
Changing relationships among culture/polities of
ancient Near East and regions beyond.

HIST 4052. Ancient Near East and Egypt: 1500 to 323
BCE. (3 cr; A-F only; § AMES 4052. Prereq—4051 or prev
coursework in ancient history recommended)
Lands of Western Asia and Northeast Africa from
Late Bronze Age to death of Alexander in 323 BCE.
Growth/decline of empires. Diplomatic relations
and sociopolitical transformations among Late Bronze
and Iron Age states. New technologies. Developments in
religion/theology.

HIST 4061. History of the Greek World from Earliest Times
to 400 B.C. (3 cr)
Trace the history of the Greeks from their initial
appearance in Greece in the Bronze Age to the
close of the 5th century B.C. Special attention will
be devoted to the polis, military development, and
intellectual change.

HIST 4062. History of the Greek World: 400 to 30 B.C. (3 cr)
Trace the history of the Greeks from the end of
the Peloponnesian War through the decline of
the polis, the rise of Macedon and Alexander the Great,
the fragmentation of Alexander’s empire in the
Hellenistic World and the eventual Roman take over
of that world.

HIST 4071. History of Rome to 78 B.C. (3 cr. Prereq—An
appropriate introductory course is recommended)
Intensively examine the political, institutional, and
socioeconomic history of Rome from its origins
to the death of Sulla in 78 B.C. The institutional
strengths and weaknesses that led to the rise and fall
of the Republic are the primary theme.

HIST 4072. History of Rome: 78 B.C. to A.D. 117. (3 cr.
Prereq—An appropriate introductory course is recommended)
Intensively examine the political, institutional, and
socioeconomic history of Rome from the death of
Sulla in 78 B.C. to the death of Trajan in A.D. 117.

HIST 4073. History of Rome: A.D. 117 to 641. (3 cr.
Prereq—An appropriate introductory course is recommended)
Intensively examine the political, institutional, and
socioeconomic history of Rome from the death of
Trajan in A.D. 117 to the death of Theodosius in
A.D. 395. Explores one historical question—the
decay and fall of the Roman Empire.

HIST 4135. Vikings, EAST Slavs, Turks, and Finns:
European Russia in the Early Middle Ages. (3 cr.
Prereq—An analysis of the Turkic nomads, East Slavic
agrarianists, and Finnic foragers who inhabited
early medieval European Russia and the Kazhars,
Bulghar, and Rus’/Viking states which came to rule
them.

HIST 4337. Bill of Rights and the Supreme Court Since
1865. (4 cr. Prereq—Jr or sr or grad student)
Constitutional, political, philosophical, social context of
leading U.S. Supreme Court cases on Bill of
Rights. Emphasizes properties of freedom, free speech,
freedom of religion, right to bear arms, criminal
defendants’ rights, death penalty.

HIST 4401. Topics in U.S. History. (1-4 cr [max 15 cr].
Prereq—Jr or sr or grad or #)
Selected topics in U.S. history not covered in
regular courses. Taught as staffing permits.

HIST 4959. How to Do History. (3 cr; AF only)
Skills/research experience to complete senior paper.
How to answer questions such as, “What is history?”
How to locate/use historical sources, develop a
thesis, and turn a rough idea into a full research
proposal.
Course Descriptions

HIST 4959H. Honors: How to Do History. (3 cr)
Skills/research experience to complete senior paper. How to answer questions such as, “What is history?” How to locate/use historical sources, develop a thesis, and turn a rough idea into a full research proposal.

HIST 4960. Topics in History. (1-4 cr [max 16 cr]; Prereq–Jr or sr or grad or #)
Selected topics in history not covered in regular courses. Taught as staffing permits.

HIST 4961V. Honors: Major Paper. (4 cr; A-F only; Prereq–Honors, [or jr or sr] or History major, A) Themes vary by instructor. Reading/discussion of historiography/methodology. Research component.

HIST 4962H. Undergraduate Honors Proseminar. (3 cr; Prereq–Jr or sr; honors) Themes vary depending on the instructor. Reading/discussion of historiography/methodology. Research.

HIST 4970. Historical Internship. (1-12 cr [max 12 cr]; S-N only) Internship with a historical society, government or community historical organization. Arranged through and supervised by the department.

HIST 5011. Quantitative Methods for Historical Research. (4 cr; Prereq–Honors) Basics of quantitative historical data collection, measurement, and analysis.


HIST 5053. Doing Roman History: Sources, Methods, and Trends. (3 cr; Prereq–Grad student or #) Survey of major scholarship in field of Roman history since Mommsen. Political, cultural, social, military, and economic history. Focuses on methodological problems posed by evidence. Ways in which these issues shape research.

HIST 5111. Proseminar in the History of Medieval Europe. (3 cr; A-F only; Prereq–Advanced undergraduate of exceptional ability or grads, #) Examination of basic scholarly bibliography for medieval Western European history. Aim is to help students to prepare for M.A. and Ph.D. examinations.

HIST 5115. Medieval Latin Historians. (3 cr; Prereq–Reading knowledge of Latin) Writing of history in Western Europe during the Middle Ages. Focus on idea of history, philosophy of various historians, techniques of research by medieval historians and chroniclers, history as literature, and value of medieval histories to modern research scholars. Latin texts only.

HIST 5251. Socialist/Post-socialist Transformations. (3 cr; A-F only; §GLS 6503) Transformations underway in post-socialist societies of Eastern Europe, former Soviet Union. Ramifications of abandonment of state socialism, introduction of market relations. Effect of former system, new market system on cultural institutions/identities.

HIST 5264. Imperial Russia: Formation and Expansion of the Russian Empire in the 18th and 19th Centuries. (3 cr [max 4 cr]) Interaction with Europe and Asia; attempts at modernization and reform; emancipation of the serfs and rise of revolutionary movements.

HIST 5265. 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime. (3 cr) Analysis of the factors that led to the collapse of the tsarist regime; discussion of the 1917 revolution, the evolution of the Soviet regime and the collapse of Soviet communism. Emphasis on the role of nationalities and the rise of the Commonwealth of Independent States.

HIST 5271. The Viking World: Story, History, and Archaeology. (3 cr; A-F only; §HIST 3271) Viking society and expansion of Viking influence abroad. Viking impact on Western Europe, interactions with Slavic lands, settlement of North Atlantic islands, Western Europe’s impact on Scandinavian lands. Analyzes archaeological, historical, linguistic, and numismatic evidence.

HIST 5285. Problems in Historiography and Representation of the Holocaust. (3 cr; §)Prereq–Jr or sr; honors) Issues connected with the Holocaust. Inclusiveness of other groups, Holocaust vs. “Shoah,” historiographical conflicts about perpetrators, problems of representation in literature/art, problems of narrative theology after Auschwitz.

HIST 5294. Social History of Russia and Eastern Europe Through the 19th Century. (3 cr) Lives of peasants and workers, nobles and merchants. Topics include family, marriage, sexuality; culture and tradition; transformation from an agricultural to a modern society.

HIST 5295. Social History of Russia and Eastern Europe From the Late 19th Century to the Present. (3 cr) Social movements (revolutionary, nationalist, women’s); communist and post-communist societies.

HIST 5301. U.S. Women’s Legal History. (3 cr) Women’s legal status in U.S. history, 1648 to present. Changes in women’s legal status in marriage, divorce, and child custody; reproductive/sexual autonomy; and economic/educational equality. Differences among women based on race, class, and ethnicity.

HIST 5305. Social History of Race and Ethnicity in the United States. (3 cr; A-F only) Social movements (revolutionary, nationalist, women’s); communist and post-communist societies.

HIST 5314. The Women’s Movement in America. (3 cr) Women’s legal status in U.S. history, 1648 to present. Changes in women’s legal status in marriage, divorce, and child custody; reproductive/sexual autonomy; and economic/educational equality. Differences among women based on race, class, and ethnicity.

HIST 5317. Problems in Early American History. (3 cr) Intensive consideration of topics in early American history. Topics may include readings in race, class, and gender; comparative colonialism; slavery; demography; economic history; religion; and regions in the colonial world.

HIST 5381. Minnesota History Workshop. (3-4 cr [max 4 cr]; Prereq–1301, 1302) A case study and seminar approach to historical research and interpretation. It offers teachers and students to prepare for M.A. and Ph.D. examinations.

HIST 5342. Gender in Latin American History. (3 cr) Women’s history/masculinity, Gender/colonialism, marriage, sexuality, nationalism, labor, political movements, feminism.

HIST 5346. Social History of African Women: 1850 to the Present. (3 cr; Prereq–Grad student or #) Explore the historical forces which have shaped African women’s everyday lives and the ways in which these women have been active agents in the making of their own histories.

HIST 5347. History of East Africa. (3 cr; §AFRO 3437, AFRO 5437, HIST 3437) Major themes in history of East Africa, from era of early human cultural development to present. Methods that historians use to reconstruct history. Varying interpretations/constructions of history over time.

HIST 5439. Environment and Society in Africa. (3 cr; A-F only) History, methodology, and methodological debates concerning people-environment relations in Africa, from rise of human societies to present. Environment and the rise of civilizations. Demography, colonial environmental policies, conservation, disease, indigenous knowledge, water management, food.

HIST 5441. Transformations in Pre-Colonial African History. (3 cr; A-F only, Prereq–#) African internal/external processes before 1600. Framework by which early African history is understood, tools for reconstructing it, themes/debates that have shaped it, new directions in which it is moving.

HIST 5446. Problems in West African History. (3 cr; Prereq–Grad or #) This problem-centered course explores several of the major historiographical, methodological and theoretical debates in West African history. Core topics include state formation, trade, slavery, Islam, gender, and colonialism.

HIST 5464. China in the Song, Yuan, and Ming Dynasties. (3 cr; §EAS 3465W, HIST 5464W) China during the Song (976-1279), Yuan (1279-1368) and Ming (1368-1644) dynasties, political institutions, and social structures. Attention to primary sources and how historians ask and answer questions about the past.

HIST 5465. China in the Ming and Qing Dynasties. (3 cr; §EAS 3465W, HIST 5465W) Political/social history of China from 1600 until end of Qing dynasty in 1911. Ethnicity, daily life, legal structures, city life, peasantry.

HIST 5467. State and Revolution in Modern China. (3 cr; §EAS 3467W, HIST 5467W) Modern China’s political evolution including the Taiping Rebellion, Republican Revolution, rise of Nationalist and Communist parties, Maoist era; reform under Deng Xiaoping, and the emergence of democracy in Taiwan.

HIST 5468. Social Change in Modern China. (3 cr; §EAS 3468W, HIST 5468W) Opium War and opening of Treaty Ports in 19th century; missionary activity and cultural influence; changes in education system; women’s movement; early industrialization; socialism and collectivization after 1949; industrialization of Taiwan; PRC’s entry into the world trading system.

HIST 5469. Historiographies of China, 1000-1700. (3 cr; A-F only, Prereq–Grad student or #) Important recent English-language work on Chinese culture during the Song, Yuan, and Ming dynasties. Topics include religion, gender, family structures, ethnic identity, commerce/economics, and political structures/events.

HIST 5473. Japan’s Modernities: Historiographies. (3 cr; A-F only, Prereq–Advanced undergraduate or grad student) Historiography on modern Japan in English language scholarship. Major trends since 1950s, latest scholarship. Issues concerning Japan’s modernity. Definitions of modernity, modernization, and modernism. Relationship between knowledge-making and nation building. Japan’s place in world.

HIST 5474. Sex and the Politics of Desire: Japan and Beyond. (3 cr; A-F only, Prereq–Grad student or #) History of gender/sexuality in modern Japan and Korea. Geography of Japan. Theoretical/methodological literature specific to Japan. Sexology, eugenics, feminism, nationalism, colonialism, cyber sexuality.

HIST 5479. History of Chinese Cities and Urban Life. (3 cr; A-F only; §HIST 3479) Introduction to traditional Chinese cities, their modern transformation. Ideal city plan in Confucian classics compared with physical layout of some major cities. Models about Chinese cities, influence of the models on our understanding of Chinese history/society.
Course Descriptions

HIST 5501. Medieval Europe and the World. (3 cr; A-F only. Prereq–#) Place of medieval Europe in the world. Relations of Europe with Asia, Africa, and the Americas. European knowledge of the world’s other great cultures. European travelers/explorers. Assessment of other cultures’ knowledge of Europe in the period.

HIST 5505. Survey of the Middle East. (3 cr. Prereq–Grad or #) Peoples, lands, cultures of the Middle East, from earliest civilizations to present.

HIST 5520. Topics in Chinese History. (3 cr [max 12 cr] Selected topics not covered in regular courses. Taught as staffing permits.


HIST 5547. The Ottoman Empire. (3 cr. Prereq–Grad student or #) Founding of Ottoman society/state to empire, 1300 to end of empire in 1920. Lands, institutions, peoples, legacy. Impact on Europe.

HIST 5611. Proseminar in Medieval History. (3 cr; A-F only. Prereq–Grad student or #) Basic scholarly bibliography for medieval Western European history during early Middle Ages. Foundation for teaching courses in medieval history, preparing for general doctoral exam.

HIST 5612. Proseminar in Medieval History. (3 cr; A-F only. Prereq–[5611, grad student] or #) Basic scholarly bibliography for medieval Western European history during central/later Middle Ages. Foundation for teaching courses in medieval history, preparing for general doctoral exam.

HIST 5614. The Medieval Church. (3 cr. Prereq–Grad student or #) Introduction to history of western church in Middle Ages. Emphasizes church teachings and institutional structures, beliefs/practices of lay people, medieval Christian encounter with non-Christian world.

HIST 5616. Proseminar in Medieval Spain. (3 cr. A-F only. Prereq–#) Graduate research on the development of the medieval kingdoms of Spain from Roman times to ca. 1500. Emphasis on major social, economic, and cultural developments. Christian, Jewish, and Muslim interaction. Spain and the beginnings of European expansion.

HIST 5617. Spain in the Early Modern Period: 1492-1814. (3 cr) Historiography, documents, and archives of early modern Spain analyzed. Includes reading in modern English and Spanish and practical experience with Spanish manuscript documents from the period.

HIST 5621. Proseminar: The French Revolution. (3 cr; A-F only. Prereq–Grad student or [advanced undergrad, #]) Historical literature about French Revolution of 1789. Old Regime political culture, Enlightenment, origins of the revolution, revolutionary transformations in society, politics/culture both in France and abroad, the Terror, Napoleon, revolutionary legacy.

HIST 5631. Proseminar: Comparative Early Modern History. (3 cr; A-F only. Prereq–Hist grad or #) Critical reading of historical literature dealing with integration of the globe during the early modern period, ca. 1500-1750. Book reports, class discussion.

HIST 5632. World History Proseminar. (3 cr; A-F only. Prereq–#) Theoretical approaches to world/global history. Review of major theories, controversies, chronologies, pedagogical approaches.


HIST 5649. Ideas in Context: Making Early Modern Knowledge, 1500-1800. (3 cr; A-F only. Prereq–Grad student or #) Role of institutions/loci of development of early-modern European thought/culture. University, academy, learned society, princely court, museum, printing house, workshop, trading company, armies/navies, state bureaucracies, salons, other independent associations of nascent civil society.

HIST 5650. Proseminar: Early Modern Europe. (3 cr; A-F only. Prereq–Hist grad or #) Critical reading of historical literature for early modern Europe, ca. 1450-1700., dealing with France, Germany, Italy, the Low Countries, and Spain. Each student chooses one country to focus on; book reports, class discussion.

HIST 5651. Proseminar in Tudor England: 1485-1603. (3 cr; A-F only. Prereq–#) A critical study of principal writings about English history during the Tudor and Stuart periods.

HIST 5652. Proseminar in Stuart England: 1603-1689. (3 cr; A-F only. Prereq–#) Critical study of principal writings about English history.

HIST 5671. Proseminar: Modern Britain. (3 cr; A-F only. Prereq–#) Critical study of major writings in British history, 1760-1945, and preparation for research in field.

HIST 5715. Readings in European Women's History: 1450-1750. (3 cr; A-F only. Prereq–#) Introduction to current historical research on European women’s history, 1450-1750. Topics include gender roles and form of family structure, women’s participation in religious movements, legal status of women.

HIST 5720. Society/Politics/Modern Europe. (3 cr [max 6 cr]; A-F only. Prereq–Grad or #) Introduction to literature in English on problems of modern European social, cultural, political history. Thematic/geographic focus varies year to year. Topics include historical approaches to class/gender relations, state formation as social/political process, family history, evolution of public life, popular culture.

HIST 5721. Contemporary Europe From the Late 19th Century to the Beginning of the Cold War: 1890-1950. (3 cr [ Hist 5721. Prereq–previous coursework in 19th- and/or 20th-century Europe, #) The historical literature and debates surrounding major issues in the social, political, cultural, and economic development of Europe from the turn of the century through the impact of WWII. Topics include the development of imperialism, national rivalries, social and political conflict, the rise of fascism and communism, and the origins of war.


HIST 5740. Topics in Modern German History. (3-4 cr [max 12 cr]; A-F only. Prereq–#) Readings and discussions on some central questions concerning the history of Germany during the modern period with a particular emphasis on the relationship between social change and political development. Offerings vary in thematic and chronological focus.

HIST 5761. Proseminar - Imperial Russia. (3 cr. Prereq–Knowledge of Russian or German or French) Western and Russian historiography on crucial issues of imperial Russia. Political institutions; culture and society; modernization and reforms; new interpretations.

HIST 5762. Proseminar in 20th Century Russia. (3 cr. Prereq–#5761, knowledge of Russian or German or French) Western and Russian historiography on crucial issues of 20th-century Russia. The nature of revolutions, debate over the evolution of the Soviet regime, the collapse of empires, new interpretations.

HIST 5777. Proseminar in Habsburg Central Europe. (3 cr. Prereq–#) Central Europe under Habsburg rule from the reforms of Maria Theresa to imperial collapse. Continuity and change in society; economic and political modernization; the rise of national consciousness and anti-Semitism; politics and culture in the Fin de Siecle; the Empire and World War I.

HIST 5794. Proseminar in European Economic History. (3 cr. Prereq–#) Europe’s rise in the world economy; England’s industrial revolution and uneven development in Europe; imperialism and World War I; the Great Depression; the post-1945 economic miracle; continuity and change in Eastern Europe.


HIST 5801. Seminar in Early American History. (3 cr; A-F only. Prereq–#) Introduction to the literature of early American history. Readings selected from some of the best scholarship in the field, the questions that now hold the attention of colonial historians, and the theories, methods, and sources they use in pursuit of those questions.


HIST 5821. American History in the Twentieth Century. (3 cr [max 4 cr]; A-F only. Prereq–Grad student, #) Intensive readings seminar.

HIST 5841. Proseminar in American Economic History. (3 cr; A-F only. Prereq–#) Historical literature on American economic and business history from American Revolution to the modern economy.

HIST 5844. U.S. Labor History. (3 cr) Readings in classic and recent approaches to the history of the working class in the United States. Central topics include slavery and free labor, women’s paid and unpaid labor, management strategy, labor protest, and trade union organization.

HIST 5845. History of American Capitalism. (3 cr; A-F only. Prereq–Grad student or #) Historiography/history of American capitalism. Crucial events (e.g., market “revolution,” development of industrial cities) focus weekly discussions of new literature. Students analyze theoretical models of capitalism and new work in social, political, and economic history.

HIST 5857. Proseminar: Readings in the History of American Women. (3 cr. Prereq–#) An intensive graduate-level readings course. Survey selected significant topics in historical literature, conceptual frameworks, and methodological problems in the history of American women from 1600 to the present.
HIST 5861. History of American Immigration. (3 cr; A-F only. Prereq—#) Readings in historical literature on immigration to the United States. Emphasis on recent works distinguished by new research methodologies and interpretations.

HIST 5862. History of American Immigration. (3 cr; A-F only. Prereq—#) Readings in historical literature on immigration to the United States. Emphasis on recent works distinguished by new research methodologies and interpretations. Each student undertakes an independent reading and/or research project.


HIST 5871. Readings in U.S. Intellectual History: 19th-20th Centuries. (3 cr. Prereq—#) Definitions of American national identity from 1789 to the present as expressed in politics, religion, literature, painting, music, architecture, and history.

HIST 5877. Asian American History. (3 cr; A-F only) Introduction to key issues, theoretical frameworks, research, and methodologies of Asian American history. Seminal texts that defined the field. Recent scholarship in history and in related disciplines. Emphasis field’s comparative/transnational linkages to ethnic studies, Asian studies, and the Americas.

HIST 5881. American Foreign Relations to 1895. (3 cr. Prereq—#) Intensive readings in the historiography of American foreign relations with emphasis on American imperialism, domestic courses of foreign policy, and international political, economic, and cultural relations.

HIST 5882. American Foreign Relations Since 1895. (4 cr. Prereq—#) Intensive readings in the historiography of American foreign relations with emphasis on American imperialism, domestic courses of foreign policy, and international political, economic, and cultural relations.

HIST 5890. Problems in American Indian History. (3 cr. §AMIN 5890. Prereq—#) Intensive consideration of topics in American Indian history. Topics may include social history, history of particular regions, political systems, education, and American Indian policy.

HIST 5900. Topics in European/Medieval History. (1-4 cr [max 16 cr] Prereq—Grad or [advanced undergrad with #]) Selected topics in European or medieval history not covered in regular courses; taught as staffing permits.

HIST 5901. Latin America Proseminar: Colonial. (3 cr. Prereq—#) Introduces beginning graduate and advanced undergraduate students to major historical writings on various Latin American themes.

HIST 5902. Latin America Proseminar: Modern. (3 cr. Prereq—#) Introduces beginning graduate and advanced undergraduate students to major historical writings on various Latin American themes.

HIST 5910. Topics in U.S. History. (1-4 cr [max 16 cr] Prereq—Grad or advanced undergrad student with #) Selected topics in U.S. history not covered in regular courses. Taught as staffing permits.

HIST 5920. Topics in African Social History. (3 cr [max 15 cr]. Prereq—Grad or #) Focuses on the experiences of Africans in their workplaces, households, and communities. Detailed treatment of selected historical themes. Topics vary by semester.

HIST 5930. Topics in Ancient History. (1-4 cr [max 16 cr]; A-F only. Prereq—Grad or #) Selected topics in ancient history not covered in regular courses. To be taught as staffing permits and as enrollment warrants.

HIST 5931. Topics in Comparative Third World History. (3 cr [max 16 cr]; A-F only. Prereq—Grad student or #) Topics specified in Class Schedule.

HIST 5932. African Historiography and the Production of Knowledge. (3 cr; A-F only. Prereq—Major in African History or grad student, #) Recent scholarship on social history of Africa. Focuses on new literature on daily lives of ordinary people in their workplaces, households.

HIST 5933. Seminar in Ancient History. (3 cr; A-F only. Prereq—Previous coursework in Greek or Roman History, #) Seminar on a selected topic in ancient history.

HIST 5934. Comparative History and Social Theory. (3 cr; A-F only. Prereq—Grad student or [upper-div undergrad, #]) Works of history/sociology that are broadly comparative/theoretical. Issues of state formation, social movements, social structure, and economic development.

HIST 5935. Methods and Pedagogy in African History. (3 cr; A-F only. Prereq—Grad student or #) Current historical methods/sources of African history. Pedagogical issues. Students design their own courses.

HIST 5940. Topics in Modern Chinese History. (1-4 cr [max 16 cr]. Prereq—Grad student or [advanced undergrad, #]) Possible topics include cultural, economic, intellectual, political, and social history.

HIST 5941. Readings in Chinese Documents. (3 cr. Prereq—Reading knowledge of Chinese) Readings in Chinese on a topic to be selected by the instructor. Depending on the topic and the time period, readings may involve a mixture of modern and classical Chinese or may be entirely in modern Chinese. Consult instructor for more information.

HIST 5942. Topics: History of Medicine. (3-4 cr [max 16 cr]. Prereq—Prior history of medicine or history of science course recommended for undergrad) An exploration of topics central to the history of medicine. Emphasis on mid-18th century to the present. Topics vary yearly.

HIST 5950. Topics in Latin American History. (1-4 cr [max 15 cr]. Prereq—Grad or advanced undergrad with #) Selected topics in Latin American history not covered in regular courses. Taught as staffing permits.

HIST 5960. Topics in History. (1-4 cr [max 16 cr]. Prereq—Grad or [advanced undergrad with #]) Selected topics in history not covered in regular courses. Taught as staffing permits.

HIST 5962. Expansion of Europe. (3 cr; A-F only. Prereq—Grad student, #) Research proseminar on actions of Europeans in wider world, 1350-1790. Based on documents in James Ford Bell Library.

HIST 5964. Comparative Economic History. (3 cr. Prereq—#) Theoretical approaches guide cross-cultural examinations of major issues in the economic history of East Asia, Europe, and the New World. Agrarian structures in economic development, markets, the state and economic development, and the industrial revolution.

HIST 5970. Advanced Research in Quantitative History. (4 cr [max 16 cr]. Prereq—Grad student, #) Students will carry out publishable-quality research on a quantitative historical topic.


HIST 5980. Topics in Comparative Women's History. (3 cr [max 15 cr]. Prereq—Grad student or [advanced undergrad, #]) Cross-cultural/thematic explorations in history of women. Topics vary. May include gender and colonialism; women and class formation; women and religion; sexuality; medical construction of gender; women's narratives as historical sources; gender and politics.

HIST 5990. Readings in Comparative History. (3 cr [max 9 cr]. Prereq—#) Students read/discuss historical works that focus on common theme or employ similar methods in different geographic areas. Issues of cross-area comparison. Topics vary (e.g., peasant societies, race/ethnicity, states/nationalism).

HIST 5993. Directed Study. (1-16 cr [max 16 cr]. Prereq—Grad student or cr., #. ∆. Q.) Guided individual reading or study.


History of Medicine (HMED)

HMED 3001V. Health Care in History I. (3 cr. §HMED 3001W. Prereq—Honors) Introduction to intellectual/social history of European/American medicine, health care from classical antiquity through 18th century. Meets with 3001W.

HMED 3001W. Health Care in History II. (3 cr. §HMED 3001V) Introduction to intellectual/social history of European/American medicine, health care from classical antiquity through 18th century.

HMED 3002W. Health Care in History III. (3 cr) Introduction to intellectual/social history of European/American medicine, health care in 19th/20th centuries.

HMED 3040. Human Health, Disease, and the Environment in History. (3 cr) Introduction to changing relationship of human health and the environment. Ways in which human-induced environmental changes have altered our experiences with disease and our prospects for health.

HMED 3055. Women, Health, and History. (3 cr) Women’s historical roles as healers, patients, research subjects, health activists. Biological determinism, reproduction, mental health, nursing, women physicians, public health reformers, alternative practitioners. Gender disparities in diagnosis, treatment, research, careers. Assignments allow students to explore individual interests.


HMED 5002. Public Health Issues in Historical Perspective. (3 cr) Introduction to the evolution of major recurring problems and issues in public health including environment and health, food customs and nutrition, control of alcohol and drugs, venereal diseases and public policy, human resources regulation, and relationship of science to promotion of health.
Course Descriptions


HMED 5045, Modern Medical Profession. (3 cr) Historical analysis of American medical profession in 19th and 20th centuries. Role of institutions, influence of social/moral values. Consequences of specialization, scientific innovation.

HMED 5055, Women, Health, and History. (3 cr. Prereq-Grad student or [jr or sr] with prev coursework in hist or #) Women’s historical roles as healers, patients, research subjects, health activists. Biological determinism, reproduction, mental health, nursing, women physicians, public health reformers, alternative practitioners. Gender disparities in diagnosis, treatment, research, careers. Assignments allow students to explore individual interests.

HMED 5200, Early History of Medicine to 1700. (3 cr; A-F only) An introductory survey of the history of medicine in Europe and America.

HMED 5201, History of Medicine from 1700 to 1900. (3 cr. Prereq-5200) An introductory survey of the history of medicine in Europe and America.

HMED 5210, Seminar: Theories and Methods in Medical History. (3 cr; A-F only) Historiography of the history of medicine.

HMED 5211, Seminar: Theories and Methods in Medical History. (3 cr; A-F only. Prereq-5210) Use of archives, primary sources. Supervised research project.

HMED 5940, Topics in the History of Medicine. (3-4 cr. [max 16 cr] Seminar on the historical relations between medicine and the State from the 18th to 20th centuries.

History of Science and Technology (HSCI)

Department of History of Science and Technology

Institute of Technology


HSCI 1905. Freshman Seminar. (2 cr; A-F only. Prereq-Fr with no more than 30 cr or FRP) Topics vary. See Class Schedule.

HSCI 3211. Biology and Culture in the 19th and 20th Centuries. (3 cr. §HSCI 5211) Changing conceptions of life and aims and methods of biology; changing relationships between biology and the physical and social sciences; broader intellectual and cultural dimensions of developments in biology.


HSCI 3244. History of Ecology and Environmentalism. (3 cr. §HSCI 5244) Development of ecological thought from 18th century natural theology to contemporary ecology and conservation biology; changing views of the “balance” and the “economy” of nature; conceptual and methodological developments in ecosystems ecology; connections between ecology and conservation, and between population and environmental politics.

HSCI 3331. Technology and American Culture. (3 cr. §HSCI 5331) American technology in its cultural and intellectual context from 1790 to present. Transfer of technology to America; infrastructure promoting economic growth; social response to technological developments.

HSCI 3332. Science and American Culture. (3 cr. §HSCI 5332) American science since 1600, including transfer of science to America; development of indigenous traditions for pursuit of science; infrastructure for education and research; public response to scientific development.

HSCI 3333H, Honors Course: Issues in Twentieth Century American Science and Technology. (3 cr) Historical approach to understanding science and technology. Emphasizes intellectual, political, and social contexts. Decision-making by practitioners on issues of importance to the profession and the community. Topics relating to popular science, science, and warfare.

HSCI 3401. Ethics in Science and Technology. (3 cr §HSCI 5401) Historical issues involve research ethics including utilitarian, social Darwinian, and other ethical systems developed in science. Ethical problems posed by modern science and technology, including nuclear energy, chemical industry, and information technology.


HSCI 4050. Special Topics in History of Science. (3 cr) Topics specified in Class Schedule.

HSCI 4060. Special Topics in History of Technology. (3 cr) Topics specified in Class Schedule.


HSCI 4121. History of 20th-Century Physics. (3 cr. §PHYS 4121. Prereq-General physics or #) Experimental and theoretical discoveries in 20th-century physics (modern physics, theory of relativity, quantum theories, nuclear physics to World War II) within the context of educational, institutional, and political developments in Europe and the United States.


HSCI 4302. History of High-Technology Weapons. (3 cr) Ancient missile launchers, gunpowder, cannons, and their role in expansion of West. Influence of arms-making on American system of manufacture. Naval warfare, air power, nuclear weapons, ICBM's, chemical/biological warfare, stealth/smart weapons.

HSCI 4321. History of Computing. (3 cr. §CSCI 4321) Developments in the last 150 years; evolution of hardware and software; growth of computer and semiconductor industries and their relation to other business areas; changing relationships resulting from new data-gathering and analysis techniques; automation; social and ethical issues.

HSCI 4455. Women, Gender, and Science. (3 cr §WGST 4455) Three intersecting themes analyzed from 1700s to the present: women in science, gender and gendered concepts in modern sciences, and impact of science on conceptions of sexuality and gender in society.

HSCI 5211. Biology and Culture in the 19th and 20th Centuries. (3 cr. §HSCI 3211) Changing conceptions of life and aims and methods of biology; changing relationships between biology and the physical and social sciences; broader intellectual and cultural dimensions of developments in biology.

HSCI 5244. History of Ecology and Environmentalism. (3 cr. §HSCI 3244) Development of ecological thought from 18th century natural theology to contemporary ecology and conservation biology; changing views of “balance” and the “economy” of nature; conceptual and methodological developments in ecosystems ecology; connections between ecology and conservation, population and environmental politics.


HSCI 5401. Ethics in Science and Technology. (3 cr. §HSCI 3401) Historical issues involving ethics in science. Ethical problems posed by modern science/technology, including nuclear energy, chemical industry, and information technologies.

HSCI 5411. Art and Science in Early Modern Europe. (3 cr) Interaction of art and science, from Renaissance to 19th century. Development of linear perspective, color theory, artistic practice, and scientific illustration/representation.

HSCI 5993. Directed Studies. (1-15 cr [max 15 cr], Prereq–#) Guided individual reading or study.

HSCI 5994. Directed Research. (-1-15 cr [max 15 cr], Prereq–#)

Hmong (HMNG) Department of Asian Languages and Literatures College of Liberal Arts

HMNG 1011. Beginning Hmong. (5 cr. §HMNG 3022, HMNG 4001) Listening, speaking, reading, and writing skills. Emphasizes development of communicative competence.


HMNG 3290. Hmong Language Teaching Tutorial. (1 cr [max 2 cr], Prereq–Grad of A in 3022) Students tutor beginning students of Hmong and are part of department’s Hmong language team.

HMNG 4001. Beginning Hmong. (3 cr. §HMNG 1011, HMNG 3022. Prereq–passing score on GPT in another language or grad student) Listening, speaking, reading, and writing skills. Emphasizes development of communicative competence. Meets with 1011.

HMNG 4002. Beginning Hmong. (3 cr. §HMNG 1012. Prereq–4001, passing score on GPT in another language or grad student) Continuation of 1011. Listening, speaking, reading, and writing skills. Emphasizes development of communicative competence. Meets with 1012.


HMNG 5040. Readings in Hmong Texts. (2-4 cr [max 12 cr], Prereq–1016 or 3022 with grade of at least B or #) Comprehensive, multidimensional overview of Hmong oral forms/traditions. Hmong legends, mythology, folklore, birth, marriage/funeral rites. History, social/cultural anthropology. Values, life ways of traditional village society. Societal changes resulting from emigration to U.S.

Honors Seminar (HSEM) HSEM 1001H. Introduction to Arts and Sciences. (1 cr. Prereq–1st sem fr, honors) Small-class discussion with outstanding faculty members. Meets for 10 weeks.

HSEM 1210H. Honors Book Discussion. (1 cr [max 2 cr]; S-N only) Honors Book Discussion.


HSEM 2110H, 2120H, 2130H. Writing Intensive Honors Seminar. (3 cr [max 9 cr]; Prereq–Fr or soph, honors) Topics course, often interdisciplinary, writing intensive.


HSEM 3093H. Directed Studies. (1-4 cr [max 16 cr], Prereq–[Fr or sr, honors], A, C) Additional research related to seminar topic.

HSEM 3101W, 3120W, 3130W, 3140W. Writing Intensive Honors Seminar. (3 cr [max 12 cr]; Prereq–[Fr or sr, honors]) Special topics course. Discussions, active learning. Often interdisciplinary in perspective.

HSEM 3210H. Honors Book Discussion. (1 cr [max 2 cr], Prereq–[Fr or sr, honors]) Students read a text, meet to discuss. Lectures on text by faculty, other experts.

Horticultural Science (HORT) Department of Horticultural Science College of Food, Agricultural and Natural Resource Sciences


HORT 1003. Master Gardener Core Course: Horticulture for Home & Garden. (3 cr) Foundation in soils; botany; entomology; plant pathology; indoor, herbaceous, and wood plants; lawn fruits/vegetables; pesticides; wildlife. Emphasizes extension publication resources useful in answering consumer horticulture questions.

HORT 1004. Building Your Horticulture Learning Community. (1 cr; A-F only, Prereq–[New NHS admit or new NAS admit], environmental horticulture major) How to use personal, departmental, college, and University resources to increase learning. Building collegial relationships with other incoming students to form a “student learning community” that will support personal/professional growth.


HORT 1015. Woody and Herbaceous Plants. (4 cr) How to identify plants around the world. A few hundred of the most important cultivated plants for northern climates, their distinguishing features, common uses, cultural utilities, and notable cultivars.

HORT 1031. Vines and Wines: Introduction to Viticulture and Enology. (3 cr. Prereq–21 yrs of age by date of 1st class meeting) History of wine, principles of biology, culture of grapevine, fermentation, sensory evaluation of wine.


HORT 3005. Environmental Effects on Horticultural Crops. (2 cr; A-F only, Prereq–[1001, CHEM 1011] or #). Effects of environment on plant growth/physiology. How horticulturists manipulate environment to produce high quality plants.

HORT 3090. Horticultural Practicum. (2-4 cr [max 12 cr], Prereq–Fr or Hort major, #) Approved field, laboratory, or greenhouse experiences in application of horticultural information and practices.
HORT 4000. International Experiences in Horticultural Science. (3 cr; max 6 cr. Prereq—1001 or #) Perspectives in horticultural science and cultural diversity through various international settings. Focuses on different aspects, depending on interests/expertise of lead faculty. First part of course is preparation for an international study tour of one to three weeks, usually during May Session.

HORT 4000H. International Experiences in Horticultural Science: Honors. (3 cr; max 6 cr. Prereq—1001 or #, honors) Perspectives in horticultural science and cultural diversity through various international settings. Focuses on different aspects, depending on interests/expertise of lead faculty. First part of course is preparation for an international study tour of one to three weeks, usually during May Session.

HORT 4015. Advanced Woody and Herbaceous Plant Topics. (1 cr; max 7 cr; Prereq—1015) Species, cultivars, identification, and use for each genus of one group of plants.

HORT 4021. Landscape Design and Implementation I. (4 cr. Prereq—1001, 1015) Based on philosophy of sustainable landscape theory/practice. Emphasizes sustainability to all phases of landscape development. Lab includes design, implementation, and management of actual landscape.

HORT 4022. Applications in Computer-Aided Design for Landscapes. (3 cr. Prereq—5021) Training in computer-aided design and related software programs for use in developing landscape design solutions. Focuses on practical, real life applications. Students develop base plans, concept, draft designs, and completed landscape design.


HORT 4072. Growing Plants Organically: What It Means To Be Green. (3 cr. Prereq—1001 or BIOL 2022 or PLPA 3000 or equiv, # or cr) Science and ethics of organic cultivation. What is meant by "green" from a legal, scientific, and ethical perspective? Explore original literature on an organic practice, prepare a written report, and lead a class discussion.

HORT 4096. Professional Experience Program: Internship. (1-3 cr; max 6 cr. Prereq—COOE 4535 undergraduate, #, completed internship approval) Professional experience in horticulture firms or government agencies attained through supervised practical experience. Students evaluate reports, consult with faculty advisers and employers.

HORT 4401. Plant Genetics and Breeding. (4 cr. JARO 4401. Prereq—Biol 1003 or equiv or grad, #) Principles of plant genetics and environmental variation. Applications of genetics to crop evolution and breeding of self-pollinated, cross-pollinated, and asexually propagated crops. Lab experiments investigate hybridization, variation, and selection.

HORT 5009. Pesticides in Horticulture: Their Use and Abuse. (3 cr; A-F only. Prereq—ENT 4015 or ENT 4251, PLPA 2001) History of and practical knowledge about pesticides used by horticulture industry. Pesticide modes of action. Use, application methods, environmental effects. Final three weeks devoted to labs on practical mixing/delivery systems.

HORT 5018. Landscape Operations and Management. (3 cr. Prereq—1001 or #) Business, managerial, and technical aspects of landscape management relative to environmental horticulture and green industry. Tasks associated with maintaining turf and woody/herbaceous plants in landscape. Relationship of these tasks to preparation/judications of labor, equipment, and supply budgets. Emphasizes plant identifications, hands-on experiences associated with science and technically-based landscape maintenance/operations.


HORT 5031. Sustainable Fruit Production Systems. (2 cr; A-F only. Prereq—1001, 3005) Principles of fruit production. Emphasizes temperature fruit crops. Integrated management of fruit cropping systems, including site selection, cultural management practices, taxonomic classification, physiological/environmental control of plant development. Integration of writing into understanding various fruit cropping systems.

HORT 5032. Sustainable Commercial Vegetable Production Systems. (3 cr; A-F only. Prereq—3005, Ent 3005, PLPA 2001, SOL 2125 or #) Principles of commercial vegetable production. Integrated management of vegetable cropping systems. Site selection/environment, seed/stand establishment, cultural management practices, commodity use, handling from harvest to market. Perspectives on types of vegetable cultivars. Origin, historical significance/improvement through breeding, nutrition/medicinal aspects, physiological/environmental control of development.

HORT 5041W. Nursery Management. (4 cr; A-F only. Prereq—[1001, 1015] or #) Production, maintenance, and marketing of woody ornamental plants. Establishment/</div>

HRD 5105. Strategic Planning through Human Resources. (3 cr; A-F only. Prereq–5001 or 5101, 5102, 5103, 5104) The theory and practice of strategically developing, utilizing, and aligning human resources as a major contributor to organizational and quality improvement success.

HRD 5106. Evaluation in Human Resource Development. (3 cr; A-F only) Evaluation of human resource development efforts from the perspective of impact on organizations, work processes, and individuals, plus follow-up decisions.

HRD 5111. Facilitation and Meeting Skills. (1 cr) Introduction to the disciplines of planning and running effective meetings. Tools and methods for meeting management and evaluation are presented within the context of organization development.

HRD 5196. Internship: Human Resource Development. (1-10 cr [max 10 cr]; S-Nonly. Prereq–5001, 5201 or 5301) Students apply and contract for human resource development positions. Contracts describe specific HRD responsibilities to be fulfilled during internship and theory-to-practice learning outcomes.

HRD 5201. Training and Development of Human Resources. (3 cr; A-F only) Training/development of human resources in organizations. Process phases of analysis, design, development, implementation, and evaluation.

HRD 5202. Training on the Internet. (3 cr) Major concepts, skills, and techniques for giving and receiving training on the Internet.

HRD 5301. Organization Development. (3 cr; A-F only) Introduction to major concepts, skills, and techniques for organization development/change.

HRD 5302. Managing Work Teams in Business and Industry. (3 cr; A-F only. Prereq–2 core courses in HRD) Frameworks and strategies for developing effective work teams. Skill development in facilitating resolution of conflicts in organizations. Provides foundational information as well as practical applications for participants (upper-level and graduate students) to become small team leaders.

HRD 5405. Quality Improvement Through Human Resources. (3 cr; A-F only. Prereq–5201, 5301 or #) Quality management, productivity improvement theory/practice from a human resource perspective. Organization development/training as integral components of quality improvement. HR role within quality standards. History of quality improvement, contributions of major leaders.

HRD 5406. International Field Study in Human Resource Development. (3 cr. Prereq–5001) Field study of the organization development, personnel training and development, career development, and quality improvement theories and practices in a selected nation.

HRD 5624. Sales Training. (3 cr; A-F only) Strategies and techniques for developing effective sales people.

HRD 5625. Technical Skills Training. (3 cr) Analyzing technical skills training practices in business and industry. Systems and process analysis and trouble-shooting of work behavior; design methods and developing training materials.

HRD 5626. Customer Service Training. (3 cr; A-F only) Overview of customer service strategies used by successful organizations and training practices used to develop customer-oriented personnel.

HRD 5627. Management and Supervisory Development. (3 cr) Problems, practices, programs, and methodologies relating to the training and development of managers and supervisors, including needed competencies, needs assessment, delivery modes, and evaluation.

HRD 5770. Special Topics in Human Resource Development. (1-4 cr [max 12 cr]) Issues, methods, and knowledge in HRD areas. Topics vary.


HRD 5821W. Freshman Seminar. (3 cr [max 6 cr]. Prereq–Fr) Topics vary.


HRD 3032. Training and Development. (2 cr. Prereq–CSOM upper div undergrad major grad) Introduction to theory/research/design/implementation/evaluation of employee training/development programs. Emphasis is placed on the process for influencing individual/organizational outcomes (e.g., performance, job satisfaction, work climate).

HRR 3041. The Individual in the Organization. (2 cr) Focus on factors influencing individual work performance. Includes motivation, perceptual differences, career choice, psychological contracts, assumptions about workers/work, leadership/management, learning/skill development, openness to change. Examines evidence on current trends.

HRR 3042. The Individual and Organizational Performance. (2 cr) Factors influencing group, team, and organizational performance. Examines systems that drive organizational success. Topics include job design and organization structure, organization effectiveness measures, culture, group dynamics, teamwork, power and influence.

HRR 3051. Compensation: Theory and Practice. (2 cr. Prereq–[At least 60 sem cr or 75 qtr cr]. 2.00 GPA or A) Introduction to compensation/reward programs in employing organizations. Theories of organizational/employee behavior used in design/implementation of pay programs. Design, implementation, and evaluation of job evaluation, salary surveys, skill-based pay, merit-based pay, and other compensation programs.

HRR 3071. Union Organizing and Labor Relations. (2 cr. Prereq–CSOM upper div undergrad major grad) Analysis of labor unions, employee associations, and collective bargaining within the framework of contemporary American legislation and policy. Covers forming/organizing labor unions; union, employee, and management strategies and responsibilities, historical influences on policy and practice in the private and public sectors.

HRR 3072. Collective Bargaining and Dispute Resolution. (2 cr. Prereq–CSOM upper div undergrad major grad) Collective bargaining, contract administration, grievance processing, interest/rights arbitration, strikes and related policies and practices of employers, workers, and labor unions in dealing with worker representation in the private and public sectors. Impact and transfer of practices to the non-union sector are considered.

HRIR 5000. Topics in Human Resources and Industrial Relations. (2 cr [max 8 cr])

HRIR 5021. Systems of Conflict and Dispute Resolution. (4 cr. Prereq–CSOM upper div undergrad major grad) Introduction to theoretical and practical treatment of conflict settlement in interpersonal, work-related, community, business, and international settings. Lectures, discussions, observations of actual dispute resolution sessions, and lab exercises with students participating in dispute resolution simulations applied to real world conflicts.


HRIR 5023. Employment and Labor Law for the HRIR Professional. (2 cr. Prereq–[At least 60 sem cr or 75 qtr cr]. 2.00 GPA or grad student or #) Application of statutes and case law to work settings. Civil rights and equal opportunity. Discrimination and harassment. Compensation and benefits. Employee protection and privacy, labor relations. Emphasizes application and ability to recognize legal aspects of HRIR issues.

Course Descriptions


HRIR 5026. Innovative HR Leadership in the Context of Change and Uncertainty. (2 cr. Prereq–[At least 60 cr, 2.00 GPA] or grad student or A, grad majors must register A-F) Overview of leadership in managing human resources. Historical evolution. Major theories/models. Principles of effective HR leadership in practice. Effects of uncertainty/change on leadership style/practice. HR leadership as powerful management tool.


HRIR 5062. Personnel Economics. (2 cr. Prereq–ECON 1101, at least 60 sem cr, 2.00 GPA or HRIR grad major) Application of economic tools to problems in human resources and industrial relations. Human capital/training. Incentives, information, Hiring, turnover.

HRIR 5991. Independent Study in Human Resources and Industrial Relations. (1-8 cr [max 8 cr]. Prereq–A or #) Individual readings or research topics.

Humanities (HUM) Department of College of Liberal Arts

HUM 1001. Humanities in the West I. (4 cr. [HUM 3001]) Greek and Roman civilization, rise of Christianity. Epic and lyric poetry, drama, architecture, sculpture, philosophy and religion. Integrative study of works by creative figures such as Homer, Hesiod, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, Aristotle. Caesar, Lucretius Virgil, Ovid, Petronius, Augustine, Boethius.


HUM 1003. Humanities in the West III. (4 cr. [HUM 3003]) European civilization from 15th/16th centuries. Religion/cultural reaction in northern Europe, humanism, counter-reformation, religious wars.phi.osophy, literature, art, music. Works by creative figures such as Petrarch, Machiavelli, Erasmus, Luther, Michelangelo, Josquin.


HUM 1909W. Freshman Seminar. (3 cr. [max 6 cr.]; A-F only) Topics specified in Class Schedule.

HUM 3001. Humanities in the West I. (4 cr. [HUM 1001]) Greek and Roman civilization, rise of Christianity. Epic/lyric poetry, drama, architecture, sculpture, philosophy of religion. Integrative study of works by creative figures such as Homer, Hesiod, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, Aristotle. Caesar, Lucretius Virgil, Ovid, Petronius, Augustine, Boethius.


HUM 3003. Humanities in the West III. (4 cr. [HUM 1003]) European civilization from 15th/16th centuries. Religious/cultural reaction in northern Europe, humanism, counter-reformation, religious wars, philosophy, literature, art, music. Works by creative figures such as Petrarch, Machiavelli, Erasmus, Luther, Michelangelo, Josquin.

HUM 3004. Humanities in the West IV. (4 cr. [HUM 1004]) European civilization from 17th/18th centuries. Old Regime through French Revolution/Napoleonic, new science, Enlightenment, cult of sensibility, art, music. Integrative study of works by creative figures such as Cervantes, Descartes, Rembrandt, Bach, Poppe, Voltaire, Rousseau, Goethe, Watteau, David, Goya, Mozart.


HUM 3021. Introduction to Historical Foundations of Modern Education. (3 cr. (EDPA 3021, EDPA 5021, HUM 4021) Analysis and interpretation of important elements in modern education derived from pre-classical sources, the Greeks, Romans, Middle Ages, Renaissance, Reformation, Enlightenment, and Industrial Revolution. Basic background course.

HUM 3022. Introduction to History of Western Educational Thought. (3 cr. EDPA 3023, EDPA 5023, HUM 4023) Great educational classics of Western civilization, by Plato, Aristotle, Quintilian, Montaigne, Milton, Locke, Rousseau, and others.

HUM 3027. Lyric Song in Medieval Culture. (3 cr.) Courtly, paraturligal, and popular song traditions, 1100-1500, in specific contexts: castle, palace, monastery, nunnery, cathedral, theater, tavern, street and countryside. Social roles of men and women as patrons, performers, poets, composers. Writing historical narratives and recreating medieval performance traditions.

HUM 3029. Music in the 20th Century. (3 cr. [HUM 3029]) Surveys music in European and American culture from 1890s to present. Emphasizes interactions between high art, popular and ethnic musics, contributions of men and women as composers and performers, concurrent developments in the arts, dance, and literature, music as social commentary.


HUM 3281. European Intellectual History: the 18th and 19th Centuries. (3 cr. [HIST 3281]) First of a two-semester course dealing with logical, philosophical and methodological issues in the historical, social and natural sciences. The period covered is from the late seventeenth century to the mid-nineteenth.

HUM 3282. European Intellectual History: The Late 19th and 20th Centuries. (3 cr. [HIST 3282]) Second and concluding semester of readings in fundamental texts dealing with issues in logic, philosophy and the methodologies of the historical, social and natural sciences, from the late nineteenth century to the present. There is no text. Readings are from original sources.


HUM 3635. Hinduism: From Gupta to 13th Century. (2 cr) Development of classical Hinduism in its multiple cultural and social manifestations, from the 4th to 13th century C.E. Art, religion, mythology, literature, philosophy, caste system.

HUM 3677. Realization in 20th-Century Western Literature. (2 cr) Quest for meaning and process of individuation. Works by Conrad, Kate Chopin, Joyce, Sartre, Hesse.

HUM 3837. Nietzsche. (3 cr. [HUM 4837] Prereq–or #) Nietzsche’s contributions to philosophy, psychology, and criticism of religion, culture, and society.

HUM 3910. Topics in the Humanities. (2-4 cr [max 4 cr.] Prereq–Fr or #) Topics vary by offering.

HUM 3920. Honors Course: Topics in the Humanities. (2-4 cr [max 4 cr.] Prereq–Fr or #) Topics will vary from offering to offering, and will be specified in Class Schedule.

HUM 3970. Directed Studies. (1-4 cr [max 4 cr.] Prereq–Fr or #) Guided individual reading or study.

HUM 3971. Directed Studies. (1-4 cr [max 4 cr.] Prereq–Fr) Guided individual reading or study.
HUM 4021. Historical Foundations of Modern Education. (3 cr. §EDPA 3021, EDPA 5021, HUM 5021. Prereq–§ 3021, EDPA 3021, EDPA 5521) Analysis and interpretation of important elements in modern education derived from pre-classical sources, the Greeks, Romans, Middle Ages, Renaissance, Reformation, Enlightenment, and Industrial Revolution. Background course.

HUM 4023. History of Western Educational Thought. (3 cr. §EDPA 3023, EDPA 5023, HUM 3023) Great educational classics of Western civilization by: Plato, Aristotle, Quintilian, Montaigne, Milton, Locke, Rousseau, and others.

HUM 4837. Nietzsche. (3 cr. §)HUM 3837. Prereq–Sr or grad student Nietzsche’s contributions to philosophy, psychology, and criticism of religion, culture, and society.

HUM 4910. Topics in the Humanities. (2-4 cr. [max 4 cr]. Prereq–Sr or grad) Topics vary by offering.

HUM 4920. Honors Course: Topics in the Humanities. (2-4 cr [max 4 cr]. Prereq–Jr or sr or grad) Topics will vary from offering to offering and will be specified in Class Schedule.

HUM 4970. Directed Studies. (1-4 cr [max 4 cr]. Prereq–Jr or sr or grad, #) Guided individual reading or study.

HUM 4971. Honors Course: Directed Studies. (1-4 cr [max 4 cr]. Prereq–Jr or sr or grad, #) Guided individual reading or study.

Icelandic (ICEL)

ICEL 1101. Introductory Modern Icelandic. (6 cr. §ICEL 4101. Prereq–A) Basic listening, speaking, reading, writing. Everyday subjects (shopping, directions, family, food, housing). Culture/society. First half is at University of Minnesota-Twin Cities; second half is at University of Iceland-Reykjavík. Six-week course.

ICEL 4101. Introductory Modern Icelandic. (3 cr. §ICEL 1101. Prereq–Grad student, A) Basic listening, speaking, reading, writing. Everyday subjects (shopping, directions, family, food, housing). Culture/society. First half is at University of Minnesota-Twin Cities; second half is at University of Iceland-Reykjavík. Six-week course. Meets with 1101.

Industrial Engineering (IE)

Department of Mechanical Engineering

Institute of Technology

IE 3041. Industrial Assignment I. (2 cr; A-F only. Prereq–ME upper division, registration in ME co-op program) Industrial work assignment in engineering intern program. Evaluation based on student’s formal written report covering semester’s work assignment.

IE 4042. Industrial Assignment II. (2 cr; A-F only. Prereq–ME upper div, registration in ME co-op program) Industrial work assignment in engineering intern program. Evaluation based on student’s formal written report.

IE 4043. Industrial Assignment III. (4 cr; A-F only. Prereq–4042) Solution of system design problems that require developing criteria, evaluating alternatives, and generating a preliminary design. Final report emphasizes design communication and describes design decision process, analysis, and final recommendations.

IE 4521. Statistics, Quality, and Reliability. (4 cr. Prereq–Upper div or grad student or CNR) Random variables, probability distributions, statistical sampling/measurement, statistical inferencing, confidence intervals, hypothesis testing, single/multivariate regression, design of experiments, statistical quality control, quality management, reliability, availability.

IE 5080. Topics in Industrial Engineering. (1-4 cr [max 4 cr]. Prereq–Upper div or grad student) Topics vary each semester.

IE 5111. Systems Engineering I. (2 cr; A-F only. Prereq–IT upper div or grad student) Overview of systems-level thinking/techniques in context of an integrated, design-oriented framework. Elements of systems engineering process, including lifecycle, concurrent, and global engineering. Framework for engineering large-scale, complex systems. How specific techniques fit into framework.

IE 5112. Introduction to Operations Research. (3 cr; A-F only. Prereq–Math 2243 or Math 3273 or equiv, [one semester of probability or statistics]. [IT upper div or grad student]) Survey of Operations Research models/methods in deterministic/stochastic settings. Linear programming, integer programming, networks, forecasting, Markov chains, and queueing systems. Examples from various application areas, such as systems engineering, logistics, design, and project management.

IE 5113. Systems Engineering II. (4 cr; A-F only. Prereq–5111, a course on basic probability. [IT upper div or grad student]) Systems engineering thinking/techniques presented in 5111. Hands-on techniques applied to specific problems. Topics pertinent to effectiveness of design process. Practices and organizational/ reward structure to support collaborative, globally distributed design team.


IE 5513. Engineering Safety. (4 cr; A-F only. Prereq–Upper div IT or grad student) Occupational, health, and product safety. Standards, laws, and regulations. Hazards and their engineering control, including general principles, tools and machines, mechanics and structures, electrical safety, materials handling, fire safety, and chemicals. Human behavior and safety, procedures and training, warnings and instructions.

IE 5522. Quality Engineering and Reliability. (4 cr. Prereq–[4521 or equiv]. [Upper div or grad student or CNR]) Quality engineering/management, economics of quality, statistical process control design of experiments, reliability, maintainability, availability.

IE 5531. Engineering Optimization I. (4 cr. Prereq–Upper div or grad student or CNR) Linear programming, simplex method, duality theory, sensitivity analysis, interior point methods, integer programming, branch/bound/dynamic programming. Emphasizes applications in production/logistics, including resource allocation, transportation, facility location, networks, scheduling, distribution, production planning.

IE 5541. Project Management. (4 cr. Prereq–Upper div or grad student) Project screening/selection, multiple-criteria methods for project evaluation, project structuring/work breakdown, project teams, project scheduling, resource management, life-cycle costing, project control, project termination, research/development projects, computer support for project management.


IE 5551. Production Planning and Inventory Control. (4 cr. Prereq–CNR or upper div or grad student) Inventory control, supply chain management, demand forecasting, capacity planning, aggregate production and material requirement planning, operations scheduling, and shop floor control. Quantitative models used to support decisions. Implications of emerging information technologies and of electronic commerce for supply chain management and factory operation.


Information and Decision Sciences (IDSC)

Department of Information and Decision Sciences

Curtis L. Carlson School of Management


Course Descriptions

IDSC 4431. Advanced Database Design and Administration. (3 cr; A-F only. Prereq–4103) Role, organization, functions, and tools of data administration. Data planning and information architecture. Object-oriented DBMS and support for graphics and CAD/CAM applications. Data security, maintaining database integrity, and managing data shared, networked or distributed environment. Strategies for using advanced DBMS tools and CASE tools.


IDSC 4203. Information Technology Infrastructure. (4 cr; A-F only. Prereq–3201 or 3202) Technology and infrastructure for developing large-scale information systems. Processes to identify, evaluate, and select appropriate infrastructure components. Application of systems analysis and design techniques in a class project.

IDSC 4204. Managing Information Services. (4 cr; A-F only. Prereq–3202) Information services as a service function. Techniques, activities, and issues for management/ control of systems development at project level. Relationship of function, roles, and organizational structures. IS planning/business strategy, skill development, career pathing. Management of acquisition, subcontracting, outsourcing, operations, and user support.


IDSC 4431. Advanced Database Design. (2 cr; A-F only. Prereq–4103) Comprehensive review of data modeling methodologies. Advanced constructs in database design. Modeling subtypes and supertypes, ternary and higher-order relationships, integrity constraints. CASE tools; representation of facts; verbalization of a data model for human understanding and validation.


IDSC 4490. Information Systems Special Topics. (2 cr; max 10 cr; A-F only) Discussion and analysis of current topics and developments in information systems.

IDSC 4491. Independent Study in Information Systems. (1-4 cr; max 4 cr; A-F only. Prereq–4103) High-level, conceptual data modeling to capture robust data semantics before implementing in a Relational DBMS. ER/relational DB design concepts and normalization. Subtypes/supertypes, ternary relationships, integrity constraints, business rules. Document/present designs. Design problem-solving with Object Role Modeling (ORM) and MS Visio/EA.

IDSC 4493. Directed Study. (1-4 cr; max 12 cr; A-F only. Prereq–ITI student, A) Independent project. Topic arranged with and supervised by ITI faculty.

IDSC 4707. Practice of Database Systems. (3 cr; A-F only. Prereq–CSCI 4061 or 45 cr) Completes the study of database systems. Coverage includes database design, normalization, transaction processing, and recovery concepts. Lab work uses SQL, interfaces to DBMS, and database design systems. Course is designed for advanced students.


IDSC 4451. IT Infrastructure Operations (Capstone). (3 cr; A-F only. Prereq–CSCI 4061 or even cr #4) Network, server, and database operations. Infrastructure architecture, organizational structure, security, metrics, vendor relations, outsourcing, capacity planning, strategic planning, budgeting. Online case study.

IDSC 4461. Introduction to Data Warehousing. (3 cr; A-F only. Prereq–CSCI 4707 or CSCI 4707 or #) Data warehouse architecture. Star schema and dimensional modeling. Extract-Load-Transform processes. Query design. Administration/operation. Lab.

IDSC 4471. Software Engineering. (4 cr; A-F only. Prereq–CSCI 4061 or #) Theory/practice of software engineering. Software development, requirements/specifications, design, verification, validation.

IDSC 4492. Advanced Database Design. (3 cr; A-F only. Prereq–CSCI 4707 or CSCI 4707 or [hands-on experience using DBMS to define/populate/query a database using SQL], basic understanding of [ER diagrams, relational databases], 45 cr) High-level, conceptual data modeling to capture robust data semantics before implementing in a Relational DBMS. ER/relational DB design concepts and normalization. Subtypes/supertypes, ternary relationships, integrity constraints, business rules. Document/present designs. Design problem-solving with Object Role Modeling (ORM) and MS Visio/EA.


IDSC 4493. Directed Study. (1-4 cr; max 12 cr; A-F only. Prereq–ITI student, A) Independent project. Topic arranged with and supervised by ITI faculty.


IDSC 4490. Information Systems Special Topics. (2 cr; max 10 cr; A-F only) Discussion and analysis of current topics and developments in information systems.

IDSC 4491. Independent Study in Information Systems. (1-4 cr; max 4 cr; A-F only. Prereq–4103) High-level, conceptual data modeling to capture robust data semantics before implementing in a Relational DBMS. ER/relational DB design concepts and normalization. Subtypes/supertypes, ternary relationships, integrity constraints, business rules. Document/present designs. Design problem-solving with Object Role Modeling (ORM) and MS Visio/EA.

IDSC 4493. Directed Study. (1-4 cr; max 12 cr; A-F only. Prereq–ITI student, A) Independent project. Topic arranged with and supervised by ITI faculty.

IDSC 4471. Practice of Database Systems. (3 cr; A-F only. Prereq–CSCI 4061 or #) Completes the study of database systems. Coverage includes database design, normalization, transaction processing, and recovery concepts. Lab work uses SQL, interfaces to DBMS, and database design systems. Course is designed for advanced students.

IS 5001. Introduction to Innovation Studies. (1-4 cr; max 4 cr; A-F only. Prereq–A) Key concepts/models from sociology, futures study, and business. Innovative, team leadership strategies. Definition/application of just-in-time concept. Life-long self-improvement skills.

IS 5002. Final Project for Innovation Studies. (4 cr; A-F only. Prereq–Completion of IS requirements, A) Either an internship in an organization or a hands-on study project on a contemporary issue or problem. Students apply expertise/ideas to a real-world situation.

IS 5100. Innovation Studies Seminar. (1-4 cr; max 24 cr; A-F only. Prereq–A) Special interdisciplinary topics.

Innovation Studies (IS)

College of Continuing Education

IS 5950. Special Topics. (1-4 cr; max 12 cr; A-F only. Prereq–A) Special interdisciplinary topics.
Institute of Technology (IOFT)

Institute of Technology

IOFT 1. Fundamentals of Engineering Review (E.I.T. Refresher). (0 cr; S-H only. Prereq—Bachelor's degree in engineering)

For engineering graduates who are preparing for the Engineer-in-Training examination, the first of two written exams required for registration as a professional engineer. Review of mathematics, chemistry, materials, statics, dynamics, strength of materials, thermodynamics, electric circuits, fluid mechanics, and engineering economics.

IOFT 1101. Environmental Issues and Solutions. (4 cr. Prereq—High school chemistry or equiv, one yr high school algebra)

Importance of science in understanding/solving various environmental problems. Case studies. Laboratory exercises.

IOFT 1311. Engineering Basics. (2 cr. Prereq—IT lower div or #)


IOFT 1312. Exploring Careers in Science and Engineering. (2 cr)

Career development self assessment, career decision making, writing resumes and cover letters, identifying/contacting employers, interviewing. Using Career Services to find internships, co-ops, and permanent positions. Topics presented by employers and by Career Services staff.

IOFT 1901. Freshman Seminar, Environment. (1-3 cr [max 4 cr]; A-F only. Prereq—Freshman)

Topics vary. See Class Schedule.

IOFT 1904. Freshman Seminar: International Perspective. (1-3 cr [max 4 cr]; A-F only. Prereq—Freshman)

Topics vary. See Class Schedule.

IOFT 1905. Freshman Seminar. (1-3 cr [max 4 cr]. Prereq—Freshman)

Topics vary. See Class Schedule.

IOFT 1906. Freshman Seminar: Environment/Writing Intensive. (1-3 cr [max 4 cr]; A-F only. Prereq—Freshman)

Topics vary. See Class Schedule.

IOFT 1909W. Freshman Seminar, International Perspective/Writing Intensive. (1-3 cr [max 4 cr]; A-F only. Prereq—Freshman)

Topics vary. See Class Schedule.

IOFT 1910W. Freshman Seminar, Writing Intensive. (1-3 cr [max 4 cr]; A-F only. Prereq—Freshman)

Topics vary. See Class Schedule.

IOFT 4101W. Communication Skills and Professional Practice. (3 cr; A-F only. Prereq—Upper div IT or #)

Non-technical skills/topics important in engineering/scientific work environment. Group/team dynamics, intellectual property, running meetings, professional ethics, effective communication, negotiation. Emphasizes realistic work scenarios requiring public speaking, teamwork, and writing.

Insurance and Risk Management (INS)

Industrial Relations Center

CURTIS L. CARLSON SCHOOL OF MANAGEMENT

INS 4100. Corporate Risk Management. (2 cr)

Theory applied to corporate risk management and insurance practices. Identification, measurement, and treatment of an organization’s financial risks integrated with its property, liability, workers compensation, and human resource risks. Selection and application of risk control and risk financing tools: risk retention, reduction and transfer, including insurance.

INS 4101. Employee Benefits. (2 cr. Prereq—4100 or 5100 or HR 3021 or #)

Design/administration of employee benefit plans and pension programs. Health insurance, disability plans. Salary reduction/deferred compensation programs, from social insurance to executive benefits. Multiple employer trusts. Alternative funding methods, including self-insurance. Ethical issues, legal liability, compliance with regulations.

INS 4200. Insurance Theory and Practice. (2 cr)

Risk theory is applied to practices in health, liability, life, property, and workers compensation insurance. Insurance marketing, pricing, underwriting, and claims administration, with adverse selection and moral hazard effects. Policy issues of tort versus no-fault compensation systems. Self-insurance and integrated risk financing methods.

INS 4201. Personal Financial Management. (2 cr)


INS 4202. Personal Financial Planning 2: Tax and Estate Planning Techniques. (2 cr. Prereq—4201 or 5201)

Estate planning, tax management techniques. Charitable giving, probate process, use of health care directives, durable powers of attorney, revocable/irrevocable trusts, wills, asset distribution.


In-depth treatment of estate planning and tax management techniques introduced in 5201. Charitable giving, probate process, use of health care directives, durable powers of attorney, revocable/irrevocable trusts, wills, asset distribution.

Inter-College Program (ICP)

College of Continuing Education

ICP 3000. Career Skills in the Professional Environment. (2 cr. Prereq—60 cr)

Career planning and job search processes appropriate to business/professional careers in corporate culture.

ICP 3001. Introduction to Multidisciplinary Studies. (3 cr. Prereq—Admitted to ICP Multidisciplinary Studies)

University study at a major research institution, its history/theory and expectations/outcomes. Students design their degree and select areas/courses. Institutional/student perspectives.

ICP 3075. Directed Study. (1-15 cr [max 15 cr]; Prereq—#) Independent, directed study.

Interdepartmental Study (ID)

College of Liberal Arts-Adm

ID 1201. Career Exploration. (2 cr. Prereq—Fr or soph)

Students learn about their unique interests, skills, personality, values. Using this information in choosing major/career. Importance of internships, community service, other practical experiences.

ID 3201. Career Planning. (2 cr)

For juniors and seniors. A practical introduction to integrating individual talents, values, interests, and experience with critical career search strategies. Emphasis on understanding the marketplace, internet research, strategic resume writing, networking, and interviewing.

ID 3205. Law School Exploration. (2 cr)

Assessment of fit between individual, law school, and career field of law. Off-campus informational interviews, site visits.

ID 3211. Internship: Perspectives on Work. (4 cr. Prereq—A, internship through Career and Community Learning Center)

Combines practical experience in an internship with reflection upon work in our society. Organizational structure, work as a cultural phenomenon, history of concepts of work, relationship of work to broader demands of citizenship.

ID 3301. Introduction to Marxism. (3 cr)

Marxist philosophy as a worldview and methodology for study of processes in nature, society, and thought; linkage between technological development and evolution of class-divided societies; economic theory of capitalism and socialism; transition to socialism theory and practice; racism, sexism, homophobia, and national conflicts; aesthetics.

ID 3311. Museum Exhibits: From Initial Vision to Practical Implementation. (2 cr. Prereq—# for more information, call Kevin Williams at 612 624 3988)

Introduces students to museum exhibit development culminating in the students designing a science exhibit. Study content research, educational strategies of informal science education, design, production stages, marketing, and evaluation. Multidisciplinary involving teachers in graphic art, biology, communication, marketing, science education, and others.

ID 3321. AIDS/HIV: Ethical Issues. (2 cr)

Multidisciplinary examination of AIDS/HIV in cultural context. Ethical issues in educational, medical, and political responses to AIDS. Community resources available to people with HIV. Local debates about who gets what services. Required group service project in the community.

ID 3395. OMSAA: Pre-Law Program. (4 cr. Prereq—#)

Non published course. OMSAA program for selected students to participate in a summer exchange program with William Mitchell Law School.

ID 3551. Metro Internship Seminar: Corporate and Non-Profit Social Responsibility and Ethical Leadership. (6 cr. Prereq—#)

Cross disciplinary course. Combines theoretical work with a 10-week internship in a local corporation. Focuses on ethics, leadership, organizational change, and strategies for bringing about social change.

ID 3571. HECUA Off-Campus Study Program: Metro Urban Studies Term Reading Seminar. (4 cr. Prereq—#3571, 3573, 3652; A; contact CCLC, 345 FraserH, 626-2044)

Roots/strategies for addressing urban inequality/poverty. Interdisciplinary field study, seminar work, internship.

ID 3572. HECUA Off-Campus Study Program: Metro Urban Studies Term Field Seminar. (4 cr. Prereq—#3571, 3573, A; contact CCLC, 345 FraserH, 626-2044)

Roots/strategies for addressing urban inequality/poverty. Interdisciplinary field study, seminar work, internship.
Course Descriptions

International Business (IBUS)

Curtis L. Carlson School of Management

IBUS 3001. International Business Topics. (3 cr. Prereq–Consent of Carlson International Programs) Terms, concepts, and skills for analyzing fundamental business practices in the global economy.

IBUS 5100. International Business: Undergraduate Exchange. (4-16 cr [max 48 cr]; S-N only. IBUS 5100 completed by time of study abroad. Carlson International Programs consent) Semester of study at one of Carlson School’s international exchange partner universities. Students select courses based on their academic needs/interests. For current offerings, contact Carlson International Programs.

Italian (ITAL)

Department of French and Italian

College of Liberal Arts

ITAL 100. Reading Italian in the ARTS and Sciences. (2 cr) Designed to teach a basic reading knowledge of the Italian language; full time is devoted to intensive reading and translation of texts from a wide variety of disciplines and to the teaching of translation techniques.

ITAL 1001. Beginning Italian. (5 cr [ITAL 4001]) Emphasis on the four language skills (listening, speaking, writing, and reading) and on Italian culture.

ITAL 1002. Beginning Italian. (5 cr [ITAL 4002]) Emphasis on the four language skills (listening, speaking, writing and reading) and on Italian culture.

ITAL 1003. Intermediate Italian. (5 cr [ITAL 4003]) Prereq–1001-1002) Grammar review and development of intermediate level of proficiency in listening, reading, writing and speaking. Emphasis on some cultural aspects of contemporary Italy.

ITAL 1004. Intermediate Italian. (5 cr [ITAL 4004]) Prereq–1001, 1002, 1003) Grammar review and development of intermediate level of proficiency in listening, reading, writing and speaking. Emphasis on some cultural aspects of contemporary Italy.

ITAL 1022. Accelerated Beginning Italian. (5 cr [ITAL 4005]) Prereq–ITAL [in high school or community college, score on placement exam too low to enter 1003] Accelerated review of 1001 followed by material covered in 1002.

ITAL 1737. Friends and Countrymen. (3 cr) Study of the problematic relation between friendship and citizenship as formulated by Dante in the “Inferno” and as we may interpret it in analyzing today’s civic issues. Attention to Dante’s reliance on and implicit critique of Aristotle’s “Nicomachean Ethics”. Taught in English.

ITAL 1837. Imagining Italy: Italian and Italian-American Culture, History, and Society Through Film. (4 cr [ITAL 3837]) Italian/Italian-American history, culture, and society through films. Name of the Rose, Cinema Paradiso, Big Night, Life is Beautiful. Lectures expand upon issues raised by films from different disciplinary perspectives. Urban life, nationalism, opera, terrorism, violence, food, family, emigration, ethnicity, desire.

ITAL 3015. Reading, Conversation, and Composition. (4 cr [ITAL 4004]) Intensive reading, writing, speaking practice. Study of cultural materials in authentic formats.

ITAL 3201. Reading Italian Texts: Poetics, Rhetoric, Theory. (3 cr [max 9 cr]; ITAL 5201. Prereq–3015) A basic course in understanding rhetorical and poetic aspects of language and literature; interpretive methods and theoretical concepts.

ITAL 3203. Italian Travelers: From the Enlightenment to the Present. (3 cr [max 12 cr]; ITAL 5203. Prereq–3015) Examines literary representations of travel, migration, immigration, exile, and tourism in Italy from the Enlightenment to the present.

ITAL 3209. Literature of Medieval City-States. (4 cr [max 16 cr]; Prereq–3015) The beginnings of Italian vernacular literature in the context of the city-states of the 11th to 14th centuries.

ITAL 3219. Literature of the Despotisms. (4 cr [max 16 cr]; Prereq–3015) Prose, verse, and drama of Italy under the Signorie and foreign invaders, 1400-1650.

ITAL 3301. Italian Dialects and Their Literature. (4 cr [max 16 cr]; Prereq–3015) Study of selected Italian dialects and dialect texts in their cultural and historical settings.

ITAL 3305. Staging the Self: Theater and Drama in Modern Italy. (4 cr [max 16 cr]; ITAL 5305. Prereq–3015) Theatrical representations of the self in modern Italy. Particular attention given to issues of identity, gender, and class in theatrical works ranging from Alfieri’s Mirra, Pirandello’s Enrico IV to Dacia Maraini’s Clytemnestra.

ITAL 3501. The World in the City: Italy 1100-1660. (3 cr [max 12 cr]; Prereq–3015) The culture and civilization of Italian cities in medieval and early modern periods.

ITAL 3502. Making of Modern Italy: From the Enlightenment to the Present. (3 cr [max 12 cr]; ITAL 5502. Prereq–3015) Italian literary, cultural, and symbolic practices from the Enlightenment to the present.

ITAL 3550. Topics in 19th Century Italy. (3 cr [max 12 cr]; Prereq–3015 or #) Literature/culture of Italy in 19th century. Content varies depending on instructor. Literary, critical, cultural, historical, or social issues. Specific author, genre, or topic of interest. Readings, Specific content posted in department and listed in Course Guide.

ITAL 3640. Topics in Italian Studies. (3 cr [max 12 cr]) Topics of interest in studies of Italian or Italian American culture of 20th century. Literary, critical, cultural, historical, or social issues, a specific author, a genre, or other topic. Readings could be literary, critical, historical, or political. Content varies by instructor, see Course Guide.

ITAL 3806. Negotiating the Terms: Italian Film and Literature. (3 cr [max 12 cr]; ITAL 5806) Examines cinematic representations of Italian literary texts; introduces the basic tools of literary and film analysis; discusses how both media impact Italian culture. Taught in English.

ITAL 3837. Imagining Italy: Italian and Italian-American Culture, History, and Society Through Film. (4 cr [ITAL 1837]) Italian/Italian-American history, culture, and society through films: “Name of the rose,” “Cinema Paradiso,” “Big Night,” “Life is Beautiful.” Issues raised by films: urban life, nationalism, opera, terrorism, violence, food, family, emigration, ethnicity, desire.


ITAL 4002. Beginning Italian. (2 cr [ITAL 1002. Prereq–Grad student]) Meets concurrently with 1002. See 1002 for course description.

Interdisciplinary Archaeological Studies (INAR)

College of Liberal Arts

INAR 5100. Topics in Interdisciplinary Archaeological Studies. (3 cr; A-F only. Prereq–link in grad major or #) Topics specified in the Class Schedule.
ITAL 4003. Intermediate Italian. (2 cr. §ITAL 1003. Prereq.—Grad student) Meets concurrently with 1003. See 1003 for course description.


ITAL 4303. Drama and Spectacle in Italy, 1200–1770. (4 cr [max 16 cr]. Prereq.—2015 Italian drama, festival and spectacle from the medieval sacred plays to the reform of the theater by Goldoni.

ITAL 4307. Novelistica. (3 cr [max 16 cr]. Prereq.—3201, or permission of director of undergraduate studies) Study of birth and development of the novella genre. Reading and discussion of stories form the Novellino, Boccaccio, Sacchetti, Bandello, Bigolini, Basile, Verga, Deledda, Calvino, Introduction to formal study of novella structure.

ITAL 4970. Directed Readings. (1-4 cr [max 16 cr]. Prereq.—#) Meets unique requirements decided on by faculty member and student. Individual contracts list contact hours, number of credits, written and other work required.

ITAL 5201. Reading Italian Texts: Poetics, Rhetoric, Theory. (3 cr [max 12 cr]. §ITAL 3201. Prereq.—Grad student or #) Rhettorical/poetic aspects of language and literature. Interpretive methods, theoretical concepts.

ITAL 5203. Italian Travelers: From the Enlightenment to the Present. (3 cr [max 12 cr]. §ITAL 3203. Prereq.—Grad student or #) Literary representations of travel, migration, immigration, exile, and tourism in Italy, from Enlightenment to present.

ITAL 5209. Trecento Literature: Ruling the Canon. (4 cr [max 16 cr]. Prereq.—2015, 3201 or #) Works of Boccaccio and Petrarch and their role in establishing the canon of Italian vernacular literature. Taught in English also as MSt 5610.

ITAL 5289. The Narrow Door: Women Writers and Feminist Practices in Italian Literature and Culture. (4 cr [max 16 cr]. Prereq.—2015) Focuses on issues of gender, sexual difference, equality, and emancipation raised by Italian women writers and thinkers from the 19th century to the present.

ITAL 5305. Staging the Self: Theater and Drama in Modern Italy. (4 cr [max 16 cr]. §ITAL 3305. Prereq.—Grad student or #) Theatrical representations of the self in modern Italy. Focuses on issues of identity, gender, and class in theatrical works ranging from Alfieri’s Mirra, Pirandello’s Enrico IV to Dacia Maraini’s Clytemnestra.

ITAL 5321. Italian Renaissance Epic. (4 cr [max 16 cr]. Prereq.—2015, 3201 or #) Study of the narrative poems of Boiardo, Ariosto, and Tasso in the context of the fashioning of early modern Europe.

ITAL 5337. Nation and Narration: Writings in the 19th Century. (4 cr [max 16 cr]. Prereq.—3035) Introduces the construction of modern Italian national identity by examining the role that literature plays in this process. Works by Manzoni, Foscolo, Leopardi, Gioia, Verga, Serao, and Deledda studied in the context of a range of sociopolitical and cultural issues.

ITAL 5401. Mondò di Dante. (4 cr [max 16 cr]. Prereq.—3015, 3201 or #) Intensive reading of Dante’s Inferno, Purgatorio, and Vita Nuova with emphasis on Dante’s linguistic and cultural contributions.

ITAL 5502. Making of Modern Italy: From the Enlightenment to the Present. (3 cr [max 12 cr]. §ITAL 3502. Prereq.—Grad student or #) Italian literary, cultural, and symbolic practices, from Enlightenment to present.

ITAL 5550. Topics in 19th Century Italy. (3 cr [max 12 cr]. Prereq.—ITAL 3015 or #) Explores the literature and culture of Italy in the 19th century. Content will vary depending on the instructor. Topics and readings may include literary, critical, cultural, historical, and/or social issues, a specific author, a genre, or other topics of interest for the period. Specific content will be posted in the department and listed in the Course Guide.

ITAL 5569. World of Dante. (4 cr [max 8 cr]) Taught in English. Intensive reading of Dante’s Inferno, Purgatorio, and Vita Nuova with emphasis on the personal, poetic, and political stakes of the journey of Dante’s pilgrim through hell to the earthly paradise.

ITAL 5640. Topics in Italian Studies. (3 cr [max 12 cr]. Prereq.—ITAL 3015) Topics of interest in studies of Italian and/or Italian American culture of the 20th century. Topics and readings may include literary, critical, cultural, historical, and/or social issues, a specific author, a genre, or other topics. Content varies by instructor. Specific content posted in the department and in the Course Guide.

ITAL 5806. Negotiating the Terms: Italian Film and Literature. (3 cr [max 12 cr]. §ITAL 3806. Prereq.—Grad student or #) Cinematic representations of Italian literary texts. Basic tools of literary/film analysis. How both media impact Italian culture. Taught in English.

ITAL 5970. Directed Readings. (1-4 cr [max 16 cr]. Prereq.—#) Meets unique requirements decided on by faculty member and student. Individual contracts list contact hours, number of credits, written and other work required.

Japanese (JPN)

Department of Asian Languages and Literatures

College of Liberal Arts


JPN 3209. Japanese Language Teaching Tutorial. (1 cr [max 2 cr]. Prereq—Grad of A in 4042) Students tutor beginning students of Japanese and are part of department’s Japanese language team.

JPN 3451. Introduction to Japanese Linguistics. (3 cr. §JPN 3202 or #) Analysis of structure and meaning of Japanese sentence patterns.

JPN 3993. Directed Studies. (1-15 cr [max 15 cr]. Prereq.—#) Directed study in topics of Japanese literature or linguistics.


JPN 4002. Beginning Japanese. (3 cr. §JPN 1012. Prereq—4001, passing score on GPT in another language or grad student) Speaking, reading, and writing Japanese. Meets with 1012.


JPN 4004. Intermediate Japanese. (3 cr. §JPN 3022. Prereq—4003. [passing score on GPT in another language or grad student]) Speaking, reading, and writing Japanese. Meets with 3022.


JPN 4042. Advanced Japanese Conversation and Composition. (4 cr. Prereq.—4041 or #) Practice in advanced spoken and written Japanese. Typical assignments include essays, summaries, and formal interviews in Japanese.


JPN 4062. Classical Japanese. (4 cr. Prereq.—4061 or #) Analysis of the structures and arguments of classical Japanese poetry, narrative, and drama.

JPN 5040. Readings in Japanese Texts. (2-4 cr [max 12 cr]. A-F only. Prereq.—4041 or equiv or #) Students read authentic materials of various types to increase reading/speaking ability. Topics specified in Class Schedule.
JPN 5071. Communicative Competence for Japan-Oriented Careers. (4 cr. Prereq—4041 or 4042 or #) Effective communication using spoken and written Japanese in contexts likely to be encountered by a career-oriented professional in Japan.

JPN 5072. Communicative Competence for Japan-Oriented Careers. (4 cr. Prereq—5071 or #) Effective communication using spoken and written Japanese in contexts likely to be encountered by a career-oriented professional in Japan.

JPN 5160. Topics in Japanese Literature. (4 cr [max 16 cr]) Literary, historical, or cultural study of selected Japanese literature.

JPN 5161. Women's Writing in Premodern Japan. (4 cr; A-F only. Prereq—3162, 4061 or # when readings are in Japanese; 3162 or # when in translation) Works by women in premodern Japan including Genji monogatari, a lengthy narrative, Makura no soshi, a collection of vignettes, and poetry. Concerns include gendered writing system/authorship, narrative techniques, sexuality and the figure of the author, and strategies of fictionality.

JPN 5162. Tale Literature in Premodern Japan. (4 cr; A-F only. Prereq—3162, course from classical Japanese language sequence or #) Tale literature, both Buddhist and secular, presents the work of the mandarins to the lower-class people. Rhetoric and religion, fiction and history, gender and sexuality, the role of the supernatural/fantastic, and re-tellings of earlier texts.

JPN 5163. Premodern Historical Narratives. (4 cr; A-F only. Prereq—3162, course from classical Japanese language sequence or #) Narratives rooted in history. Issues include the problematization of reality, the formation of national identity, the idea of divine Imperial power, oral storytelling and its relationship to written texts, and the popularization of forms of historical writings.

JPN 5164. Readings in Early Modern Japanese Literature. (4 cr; A-F only. Prereq—3032 when readings are in Japanese or #) An examination of the stylistic and ideological aspects of the prose fiction, poetry, and non-fiction of the period 1868 to 1945. Offered in a rotating format alternating between readings in the original language and readings in English translation.

JPN 5165. Readings in Postwar and Contemporary Japanese Literature. (4 cr; A-F only. Prereq—3032 when offered in Japanese or #) Literary and historical exploration of selected works published between 1945 and the present. Focus may be on a writer, a period, or a theme. Offered in a rotating format alternating between readings in the original language and readings in English translation.

JPN 5166. Literature by 20th-Century Japanese Women. (4 cr. Prereq—3032 or #) Literary and historical exploration of selected works by Japanese women writers in a variety of genres. All literary texts read in Japanese; critical readings may be in English.

JPN 5201. History of the Japanese Language. (4 cr. Prereq—3032, 5451 or #) Development of Japanese grammar from classical to the modern language.


JPN 5452. Structure of Japanese: Phonology/Morphology. (4 cr. Prereq—3032, LING 3001 or #) Generative and nongenerative approaches to Japanese sound and word structure.


JPN 5650. Proseminar: Japanese Linguistics. (4 cr [max 12 cr. Prereq—5451 or 5452 or 5453 or #) Selected topics in generative and/or contrastive analysis of Japanese and English with attention to contributions from Eastern and Western linguistic traditions.


Jewish Studies (JWST)

Department of Classical and Near Eastern Studies

College of Liberal Arts

JWST 1034. Introduction to Jewish History and Civilization. (3 cr. §JWST 3034, RELA 1034, RELA 3034) Jewish history, society, and culture from Second Temple period (5th century BCE) to modern era as illuminated by literature, philosophy, art, film, music, religious law/custom, and artifacts of daily life. Emphasizes political, social, and cultural contexts that shaped development of Jewish ideas, practices, and institutions.


JWST 1905. Freshman Seminar. (3 cr) Topics specified in Class Schedule.

JWST 1909W. Remembering to Forget: The Holocaust and Its Afterlife. (3 cr; A-F only. SPHN 1909W, Prereq—Fr or less than 30 cr) Holocaust as incomparable event and as ultimate measure of all traumatic events in history. Testimonies, artistic endeavors, popular culture, and theory. Emphasizes both urge to study Holocaust as singular event and drawbacks of hyper-memory bordering on annemia.


JWST 3034. Introduction to Jewish History and Civilization. (3 cr. §CLAS 3034, RELA 3034) Jewish history, society, and culture from Second Temple period (5th century BCE) to modern era as illuminated by literature, philosophy, art, film, music, religious law/custom, and artifacts of daily life. Emphasizes political, social, and cultural contexts that shaped development of Jewish ideas, practices, and institutions.


JWST 3111. Too Jewish? The Complex Construction of the Jewish American Psyche in Literature, Art, and Film. (3 cr. A-F only. § JWST 3112) Questions about image/location of Jews in American arts and pop culture. Examples from literature, music, film.


JWST 3113. African American and Jewish American Relations in the United States. (3 cr) Historical and social scientific study of relations between African Americans and Jewish Americans in the U. S. during the 20th century. Includes immigration, work, cultures, gender, and alliance, and conflict.

JWST 3115. Mishnah and Midrash in Translation. (3 cr. §JWST 3115, RELA 3115, RELA 5115) Jewish law studied as a mirror of society and as a way to actualize its value. Consideration of original socioreligious contexts and current applications. Selections include biblical interpretations addressing moral, theological, legal, and literary problems.

JWST 3116. Jews and Popular Culture in 20th Century United States. (3 cr. §JWST 3116) Many types of 20th century American popular culture shaped, in part, by European Jewish immigrants and their native born descendants. How theater, film, music, humor, and television were affected by the Jews' innovations, social marginality, their wish to assimilate and to resist assimilation to the culture. How the nation was and was not reshaped in the process.


JWST 3401. The Art and Architecture of the Jewish People. (3 cr) Jewish art and architecture from antiquity to 7th-century C.E. Issues include Jewish art and the Second Commandment, non-Jewish artistic traditions, the nature of Jewish art.


JWST 3522. History of the Arab-Israeli Conflict. (3 cr) The events leading to the re-establishment of the State of Israel in 1948 and subsequent conflicts and negotiations up to present. Zionism and Arab resistance, Great Powers’ involvement, War of Independence/First Palestine War, subsequent conflicts and their aftermath.
JOUR 3551. Economics of New Media. (3 cr; A-F only. Prereq–Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Economic issues related to traditional/new media companies and emerging communications technologies.

JOUR 3552. Internet and Global Society. (3 cr; A-F only. Prereq–Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Structure/processes of the Internet and global society in a comparative context. The Internet, via the World Wide Web, as an ideal site to explore how/why societies come to see/know the world and its issues the way they do.

JOUR 3614. History of Media Communication. (3 cr; A-F only. Prereq–Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Historical perspective on tools of communication, from earliest times to present. Impact of new technologies on society.

JOUR 3741. People of Color and the Mass Media. (3 cr; A-F only. Prereq–Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Past/present depictions of people of color in movies, literature, radio/TV, etc., against anthropological, psychological, and sociological knowledge/experience. Emphasizes personal/political effects of media depictions.

JOUR 3745. Mass Media and Popular Culture. (3 cr; A-F only. Prereq–Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Mass media’s role in formation of popular culture and cultural discourse. Prevalent media metaphors, caricatures, and stereotypes. Social/commercial pressures influencing media representation.

JOUR 3771. Mass Media Ethics: Moral Reasoning and Case Studies. (3 cr; A-F only. Prereq–Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Overview of ethical dilemmas faced by journalists, advertisers, and public relations and communications specialists. Case studies, ethical principles/theories, professional codes of ethics, standards that have been used by mass media.

JOUR 3776. Mass Communication Law. (3 cr; A-F only. Prereq–Jour major or jour minor or approved IDM major or ICP major or BS major or #) Brief historical background, First Amendment rights, basic law of defamation, free press and fair trial, access to news, access to the press, privacy, contempt, obscenity, regulation of broadcasting/advertising.

JOUR 3796. Mass Media and Politics. (3 cr; A-F only. Prereq–Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval) Analysis of role of mass media in politics. Emphasizes television and electoral campaigns. News coverage vs. newsmaking. Free press in democracy.

JOUR 3990. Special Topics in Mass Communication: Professional. (3 cr [max 6 cr]; A-F only. Prereq–Jour major or approved IDM major or ICP major or BS major) Professional-skills-learning opportunity not regularly offered. Topics specified in Class Schedule.

JOUR 3991. Special Topics in Mass Communication: Context. (3 cr [max 6 cr]; A-F only. Prereq–Jour major or jour minor or approved IDM major or ICP major or BS major) Context course not regularly offered. Topics specified in Class Schedule.

JOUR 3993. Directed Study. (1-3 cr [max 6 cr]; A-F only. Prereq–Jour major or jour minor or approved IDM major or ICP major or BS major) #, Δ, Θ. Directed study projects.

JOUR 3996. Directed Internship. (1 cr [max 3 cr]; S-N only. Prereq–Jour major.) Internship supervised by communications organization at which student is working and by student’s academic sponsor.

JOUR 4171. Capstone: Covering the Arts. (3 cr; A-F only. Prereq–3004W or 3004V, 3101, [jour major or approved IDM major or ICP major or BS major] or #) Assignments may follow flow of Twin Cities arts/entertainment scene, including its controversies, or may trace the journey of a particular arts organization (e.g., Jungle Theater) through its season. Weekly conference/readings, field trips, guest lectures from artists/artists/journalists.

JOUR 4193. Walter H Bravold and John Cameron Sim Community Newspaper Practicum. (3 cr; A-F only. Prereq–3004W, 3101 or 3201, [jour major or approved IDM or ICP or BS major]) Field-based practicum at community newspaper in metropolitan area. Students work directly with editors, reporters, or advertising staff to produce news, features, or advertising material. Weekly meetings with instructor about newspaper assignments, readings, projects, or guest lectures.

JOUR 4259. Cases in Strategic Planning and Thinking. (3 cr; A-F only. Prereq–3004W, 3159 or 3201 or 3202, 3251, [jour major or approved IDM major or ICP major or BS major]) Strategic communication cases related to campaigns or issues in business, government, education, or community.

JOUR 4261. Advertising: Media Strategy. (3 cr; A-F only. Prereq–3004W, 3159 or 3201 or 3202, 3251, [jour major or approved IDM major or ICP major or BS major]) Strategic elements of media planning, media consumption patterns. Context/role of media plan within marketing/advertising. Information resources, terminology, and tools used in media planning and negotiations.

JOUR 4263. Strategic Communication Campaigns. (4 cr; A-F only. Prereq–3004W or 3004V, 3101 or 3201 or 3202, 3251, [jour major or approved IDM major or ICP major or BS major]) Developing campaign strategy/tactics. Emphasizes planning/design-making skills. Students work in groups with varying specializations.

JOUR 4272. Interactive Advertising. (3 cr; A-F only. Prereq–3004W or 3101 or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Interactive advertising models, how they differ from traditional ad models. Issues related to creating, measuring, pricing, and targeting interactive ads. Interactive ads in global, legal, and ethical contexts.

JOUR 4274W. Advertising in Society. (3 cr; A-F only. Prereq–Jour major or jour minor or approved IDM major or ICP major or BS major) Forms of regulation: self-regulation and governmental. Critique of advertising’s role in society. Current issues (e.g., stereotyping, political advertising, advertising to children). Ethics in advertising.

JOUR 4302. Electronic Photojournalism. (3 cr; A-F only. Prereq–3004W, 3102, [jour major or approved IDM major or ICP major or BS major]) Practice of photojournalism in contemporary digital environment. Visual storytelling, digital processing, professional/ethical issues.

JOUR 4321. Publication Graphics. (3 cr; A-F only. Prereq–3004, 3221, [jour major or approved IDM major or BS major]) Design process applied to production of magazines, brochures, newsletters. Computer as tool to prepare electronic documents for printing.

JOUR 4451. Capstone: Advanced Electronic News Writing and Reporting. (3 cr; A-F only. Prereq–3004W or 3004V, 3101, 3121, 3451, [jour major or approved IDM major or ICP major or BS major]) Researching, reporting, shooting, writing, and editing TV news packages. Lecture, lab.

JOUR 4452. Capstone: Electronic Newscast Producing. (3 cr; A-F only. Prereq–3004W or 3004V, 3101, 3121, 3451, [jour major or approved IDM major or ICP major or BS major]) Planning, writing, and producing live TV newscasts. Lecture, lab.

JOUR 4551. New Media Culture. (3 cr; A-F only. Prereq–Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval) Impact of “new media” (all forms of internet communication, wireless media, and combinations of “old” and “new” media) on current/future cultures. How new media may change ways we communicate, distribute, and process information. Problems, prospects, criticism. Professionalism, technology, reform.

JOUR 4731H. Honors: Communications Problems and Issues. (1 cr; A-F only. Prereq–[¶4171 or ¶4193 or ¶4263 or ¶4451 or ¶4452 or ¶4992 or ¶5131 or ¶5155 or ¶5574], jour major, honors) Honors discussion section in conjunction with capstone course.

JOUR 4801. Global Communication. (3 cr; A-F only. Prereq–Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Structures, processes, and consequences of global mass communication. Problems in free flow of information. Roles of international organizations. Mass communication in social, political, and economic development. Implications for conflict resolution.

JOUR 4990. Special Topics in Mass Communication: Professional. (3 cr [max 6 cr]; A-F only. Prereq–Jour major or approved IDM major or ICP major or BS major) Professional-skills-learning opportunity not regularly offered. Topics specified in Class Schedule.

JOUR 4990H. Honors: Special Topics in Mass Communication: Professional. (3 cr [max 6 cr]; A-F only. Prereq–Honors, [jour major or approved IDM major or ICP major or BS major]) Topics specified in Class Schedule.

JOUR 4991. Special Topics in Mass Communication: Context. (3 cr [max 6 cr]; A-F only. Prereq–Jour major or jour minor or approved IDM major or ICP major or BS major) Special context topics not regularly offered. Topics specified in Class Schedule.

JOUR 4992. Capstone: Field Based Practicum. (3 cr [max 6 cr]; A-F only. Prereq–Jour major) Professional-skills-learning experience on-site at a media organization. Topics specified in Class Schedule.

JOUR 4993H. Honors: Thesis. (1-3 cr [max 3 cr]; A-F only. Prereq–Jour major, honors div regis, Α, Δ, Θ).


JOUR 5131. Capstone: In-Depth Reporting. (3 cr; A-F only. Prereq–[3004W or 3004V, 3101, 3121, 3451, jour major or approved IDM major or ICP major or BS major] or grad student) Techniques/issues of special project stories. Exploratory, investigative, civic, and literary or ethnographic journalism. Topics (e.g., civil rights, governmental malfeasance, health care problems) typically involved in these stories.
JOUR 5155. Capstone: Advanced Reporting Methods. (3 cr; A-F only. Prereq–[J3004W or 3004V], 3101, 3121, [jour major or approved IDM major or ICP major or BIS major] or grad student) Investigative techniques for mass media, computer-assisted reporting, use of records/documents, advanced interviewing, methods for adverse conditions, or field-based practice.

JOUR 5174. Capstone: Magazine Editing and Production. (4 cr; A-F only. Prereq–[3004W, 3101, 3115 or 3173W or 3321 or 4302]. [jour major or approved IDM major or ICP major or BIS major] or grad student) Writing, editing, illustration, design, layout, and photography of print or online Web magazine. Emphasizes reporting, telling substantive stories. Students work in groups with varying specializations.

JOUR 5251. Psychology of Advertising. (3 cr; A-F only. Pre rej–jour maj or min or design COMM or graphic pre-design or design COMM or graphic design or IDM/FILB or #) Psychological principles, research techniques, and applications in advertising/selling. Consumer attitudes/behavior. Psychological mechanisms upon which effectiveness of advertisements/commercials depend.

JOUR 5316. Theories of Visual Communication. (3 cr; A-F only. Prereq–[3006, [jour major or jour minor or approved IDM major or approved ICP major or approved BIS major] or grad student or #) Perspectives on study/anaysis of visual communication and use of visual media in production, use of visual media. Contributions from sociology, anthropology, psychology, and history.

JOUR 5501. Communication and Public Opinion. (3 cr; A-F only. Prereq–Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval) Theories of communication, persuasion, attitude change. Functions of interpersonal/mediated communication in diffusion of information and in opinion formation.

JOUR 5541. Mass Communication and Public Health. (3 cr. Jour–jour major or jour minor or grad major or IDM major or ICP major or BIS major) Intersection of mass media, public health, and behavior. Role of theory in understanding intended/unintended campaign effect. Role of health journalism. Decisions that inform media-based interventions.

JOUR 5552. Law of Internet Communications. (3 cr; A-F only. Prereq–Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval) Whether/how/which traditional media laws/ regulations apply to the Internet. Developing law of communication on Internet, global/ethical issues.

JOUR 5601W. History of Journalism. (3 cr; A-F only. Prereq–Jour major or jour minor or approved IDM major or ICP major or BIS major; IDL sections are open to non-majors; prereq do not apply to IDL sections) Development of American media, from beginnings in Europe to present day. Rise of film/radio/television/Internet. Relation of communications development to political, economic, social trends.

JOUR 5606W. Literary Aspects of Journalism. (3 cr; A-F only. §ENGW 5606. Prereq–Jour major or jour minor or approved IDM major or ICP major or BIS major; IDL sections are open to non-majors; prereq do not apply to IDL sections) Literary aspects of journalism as exemplified in, and influenced by, works of American/ British writers, past/present. Lectures, discussions, weekly papers, critiques.

JOUR 5615. History of the Documentary. (3 cr; A-F only. Prereq–Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval) Social history of photography, film, video. Informational, documentary, propaganda, and entertainment functions of visual communication. Rise/influence of visual media industries and of public-image making.

JOUR 5725. Management of Media Organizations. (3 cr; A-F only. Prereq–Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval) Introduction to concepts/principles of media management. Strategic planning, leadership, organizational strategies, ethical/legal issues. Working in teams. Balance sheets, income statements. Management teams.

JOUR 5771. Media Ethics: Principles and Practice. (3 cr; A-F only. [pre-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval]) Connecting theoretical approaches to media ethics with real-life case studies. History of ethical standards in print, broadcast, photojournalism, public relations, and advertising. Making ethical judgments in complex situations.

JOUR 5777. Contemporary Problems in Freedom of Speech and Press. (3 cr; A-F only. §JAW 6030. Prereq–Jour major or jour minor or approved IDM major or ICP major or BIS major) Legal/constitutional derivation of freedom of press/speech. Emphasizes case law, statutes, judicial theories. Leading cases in privacy torts, prior restraints, news gathering/dissemination. Access to courts/government, including via the Internet. Legal-research techniques.

JOUR 5825. World Communication Systems. (3 cr; A-F only. Prereq–Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval) Mass media systems of world described/analyzed regionally/nationally. Historical roots. Social, economic, cultural context. Contemporary conditions/prospects. Relevance of journalism/ mass communication to international affairs.

JOUR 5990. Special Topics in Mass Communication: Professional. (3 cr; A-F only. Prereq–Jour major or approved IDM major or ICP major or BIS major) Professional-skills-learning opportunity not regularly offered. Topics specified in Class Schedule.

JOUR 5991. Special Topics in Mass Communication: Context. (3 cr; A-F only. Prereq–Jour major or jour minor or approved IDM major or ICP major or BIS major) Special context topics not regularly offered. Topics specified in Class Schedule.

JOUR 5993. Directed Study. (1-3 cr; A-F only. Prereq–[jour major or jour minor approved IDM major or ICP major or BIS major] GPA at least 3.00, a, #) Directed study/projects.

Kinesiology (KIN) School of Kinesiology

College of Education and Human Development

KIN 1050. Beginning Military Physical Fitness Training. (1 cr; A-F only) The Army’s model of physical fitness training is used to address five aspects of fitness in the context of running, weight training, strength exercise, circuit training, and team sport activities. Students take on leadership roles in implementing Army’s model of physical fitness training. Model addresses five factors of fitness in the context of running, weight training, strength exercise, circuit training, and team sport activities.

KIN 1311. Human Anatomy. (2 cr; A-F only) Anatomical study of the human body. Emphasizes muscular skeleton anatomy germane to athletic training, biomechanics, exercise physiology, motor learning/development.

KIN 3050. Advanced Military Physical Fitness Training. (1 cr; A-F only. Prereq–4 cr of 1050 or #) Students take on leadership roles in implementing Army’s model of physical fitness training. Model addresses five factors of fitness in the context of running, weight training, strength exercise, circuit training, and team sport activities.

KIN 3111. Human Anatomy. (2 cr; A-F only) Anatomical study of the human body. Emphasizes muscular skeleton anatomy germane to athletic training, biomechanics, exercise physiology, motor learning/development.

KIN 3121. Human Anatomy. (2 cr; A-F only) Anatomical study of the human body. Emphasizes muscular skeleton anatomy germane to athletic training, biomechanics, exercise physiology, motor learning/development.

KIN 3154. Motor Control, Learning, and Development. (3 cr; A-F only. Prereq–KIN 2151 or #) Concepts and principles of the coordination and control of movement, the learning of movement skills, and the changes in movement performance and physical growth across the life span.

KIN 3143. Organization and Management of Sport. (3 cr; A-F only. §SKSP 3143. Prereq–KIN 2151 or #) Principles, policies, and procedures involved in the administration and management of sports programs at the intercollegiate level.
Course Descriptions

KIN 3151. Measurement, Evaluation, and Research in Kinesiology. (3 cr; A-F only. Prereq–Kin major or #) Introduction to the philosophy of evaluation and measurement in physical education and exercise science. Test selection, construction, evaluation, and administration. Basic research methods, statistical analysis, and interpretation of test scores.

KIN 3168. Soccer Coaching. (1 cr) Fundamentals of the skills and strategies used in coaching soccer. Teaching/coaching technique, team organization/management, development of training schedules, rules/strategies related to the game.

KIN 3169. Volleyball Coaching. (1 cr. Prereq–Good understanding of volleyball) Motivation, team building, communication, game strategies, philosophy. Discussion, lecture, practical application.


KIN 3173. Football Coaching. (1 cr) Responsibilities/philosophies of coaching. Team management, skill development/analysis, rules, systems of play, psychology, scouting.

KIN 3174. Golf Coaching. (1 cr) Safety, rules, etiquette, skill development and analysis, and philosophy. Students should have a good understanding of the sport before enrolling. Lecture, discussion, and practical application.

KIN 3175. Gymnastics Coaching. (1 cr) Coaching gymnastics for males/females. Skill progression, skill analysis, spotting, routine construction, safety, training for competition, scoring, rules, psychology, off-season conditioning, responsibilities of coach.


KIN 3177. Swimming and Diving Coaching. (1 cr) Coaching swimming for males and females. Stroke mechanics, starts/turns, safety, training for competition, off-season conditioning, roles/responsibilities of coach.

KIN 3178. Tennis Coaching. (1 cr) Coaching strategies, safety/rules, training for competition, off-season training/conditioning, roles/responsibilities of coach.

KIN 3179. Track and Field Coaching. (1 cr) Basic training/conditioning programs, event characteristics, coaching strategies, knowledge of track/field, meet administration.

KIN 3181. Wrestling Coaching. (1 cr) Teaching/coaching of technique, team organization/management, rules interpretation, development of training schedules.

KIN 3327. Teaching Physical Education in the Elementary School. (2 cr; A-F only. Prereq–Elem ed major) Overview of the elementary physical education process with focus on a classroom teacher’s perspective and needs. Representative experiences include participation, lecture, micro-teaching, final test.

KIN 3385. Human Physiology for Kinesiology Students. (3 cr; A-F only. Prereq–[3027 or CBM 1027 or equiv], Kin major or #) Tissue/organ function, cell structure, cellular enzymes, energy production, chemical composition of the body. Nervous, muscular, endocrine, circulatory, renal, respiratory, and gastrointestinal physiological control systems studied in detail. Clinical, exercise, sport, work examples.

KIN 3696. Supervised Practical Experience, (1-10 cr [max 10 cr], S-N only; Prereq–#) On-the-job supervised practical experience in the fields of sport and exercise under a specialist in a particular area of study or emphasis.

KIN 3993. Directed Study in Kinesiology. (1-10 cr; max 10 cr; A-F only; Prereq–#) Student-selected clinical or research experience.

KIN 3993H. Directed Study in Kinesiology. (1-10 cr [max 10 cr]; A-F only; Prereq–Kin Honors, #) Student selected clinical or research experience.

KIN 4001H. Honors Seminar in Kinesiology. (3 cr; A-F only. Prereq–Kinesiology major) Contemporary issues in kinesiological research. Laboratory rotations, development of UROP project proposal, development of senior thesis topic, advanced study, career opportunities in Kinesiology, special learning opportunities.

KIN 4132. Motor Development. (3 cr; A-F only) Developmental aspects of human movement behavior/learning. Life span change of motor skills.

KIN 4135. Motor Control and Learning. (3 cr) Main theoretical ideas/research that have advanced motor control/learning over last three decades. LSUP.

KIN 4385. Exercise Physiology. (4 cr; A-F only. Prereq–[[3385 or equiv], Kin major or #) Effects of exercise on physiological systems of human body. Energy/nutritional requirements of exercise, exercise prescription, athletic conditioning, ergogenic aids, exercise in environmental extremes, gender/heritability factors related to adaptation to training.

KIN 4520. Current Topics in Kinesiology. (1-4 cr [max 8 cr]; Prereq–Upper div in [Kin or Rec or SPST or coaching or #]) Issues in kinesiology or in areas not normally available through regular curriculum offerings.

KIN 5001. Foundations of Human Factors/Ergonomics. (3 cr; A-F only) ShHMF 5001. Variability in human performance as influenced by interaction with designs of machines and tools, computers and software, complex technological systems, jobs and working conditions, organizations, and sociotechnical institutions. Emphasizes conceptual, empirical, practical aspects of human factors/ergonomic science.

KIN 5103. Developmental/Adapted Physical Education. (3 cr; A-F only) Introduction to physical education for students with disabilities, emphasizing conceptual, organizational, and administrative issues. Topics include historical and legal foundations, service components, individualized education plans, professional roles, and assessment of movement skills.

KIN 5104. Physical Activities for Persons with Disabilities. (3 cr; A-F only) Different approaches to providing physical education service and related movement interventions for persons with disabilities. Topics: movement behavior foundations, movement skill progressions, unique considerations for specific impairments, and sport for persons with disabilities.

KIN 5111. Sports Facilities. (3 cr; A-F only. Prereq–Kin or Rec grad student or ME4 student) Steps in planning/building facilities for athletics, physical education, and sport for college, professional, and public use.

KIN 5115. Event Management in Sport. (3 cr; A-F only. Prereq–Grad student, #) Techniques/principles of planning, funding, and managing sport events. College Championships, non-profit events, benefits, professional events.

KIN 5121. Application of Basic Sciences to Kinesiology. (3 cr; A-F only) Examination of how knowledge from the basics of science can lead to differing perspectives from which to approach questions directed to kinesiological inquiry.

KIN 5122. Applied Exercise Physiology. (3 cr; A-F only. Prereq–3385 or equiv or #) Mechanisms of cardiorespiratory and muscular responses to exercise; application of exercise physiology to assessment of work capacity, athletic conditioning, and requirements of human powered vehicles; low to moderate exercise as an intervention in lowering risk for common health problems.

KIN 5126. Sport Psychology. (3 cr. Prereq–3126 or equiv or #) Theory and research in sport psychology. Focus on the psychological study of human behavior in sport and physical activity settings.

KIN 5136. Psychology of Coaching. (3 cr) Psychological dimensions of coaching across age levels, including coaching philosophy, leadership, communication skills, motivation, and mental skills training for performance enhancement.


KIN 5171. Foundations of Kinesiology. (3 cr; A-F only. Prereq–Kin major or #) Introduction to the emerging field of kinesiology, broadly conceived as the study of human movement. Development and emergence of the term kinesiology and the scholarly, political, and educational ramifications of its development.

KIN 5196. Practicum: Developmental/Adapted Physical Education. (1-4 cr [max 4 cr]; S-N only; Prereq–5103 or 5103 or 5104 or 5104 or 5104 or #; KIN undergraduate pre-teaching with sr status are limited to 2 practicum hrs.) Observation of, participation in physical education instruction for students with disabilities. Current issues in developmental/adapted physical education. Exchange of ideas/problems.

KIN 5235. Advanced Biomechanics II: Kinetics. (3 cr; A-F only. Prereq–5111 or equiv) PMED 5135, undergraduate pre-teaching with sr status are limited to 2 practicum hrs.) Kinetic aspects of human movement (single/multi-joint torques, simple inverted pendulum models, mass-spring systems). Analysis of experimental data and of computer simulations. Lectures, seminars, lab.

KIN 5371. Sport and Society. (3 cr; A-F only. Prereq–5371) Sport, social issues, social structures of sport. Sociology of sports, social influence, social structure of sport.

KIN 5375. Competitive Sport for Children and Youth. (3 cr) Cognitive, behavioral, and biological factors having important implications for competitive sport participation of children and youth. Emphasis on translating sport science research into practical implications for youth sport coaches, teachers, and administrators.

KIN 5385. Exercise for Disease Prevention and Management. (3 cr; A-F only. Prereq–Undergrad [physiology or biology]) Exercise testing/prescription with modifications required because of special considerations associated with aging, gender differences, environmental conditions, or presence of medical conditions.
KIN 5421. Sport Finance. (3 cr; A-F only. §KIN 5421. Prereq—Grad student or #) Introduction to financial analysis in sport. Cash flow statements, budgeting issues, traditional/innovative revenue producing strategies available to sport organizations. Discussion, practical analysis of current market.

KIN 5435. Advanced Theory and Techniques of Exercise Science. (3 cr; A-F only. Prereq—[3385, 4385, Kin major] or #) Theoretical constructs, in-depth description of procedures used in exercise science research and clinical settings. Laboratory exercises, lectures.

KIN 5461. Foundations of Sport Management. (3 cr; A-F only. Prereq—[Kin or Rec] student or #) Theories/techniques in administration/management of sport enterprises. Organizational theory/policy, practical examples of sport management skills/strategies.


KIN 5511. Women in Sport and Leisure. (3 cr; A-F only. §KIN 5511) Critically examines women’s involvement in contributions to sport, physical activity, and leisure.

KIN 5601. Sport Management Ethics and Policy. (3 cr; A-F only. §KIN 5601, Prereq—MEd or grad student or #) How to critically analyze ethical concepts that underpin or inform sport policies and evaluate sport policies from a normative point of view. Selected sport policy issues are used to illustrate relevance of ethical considerations in policy development and to explore the ethical implications of sport policy.

KIN 5631. Programming and Promotion in Sport. (3 cr; A-F only. §KIN 5631) Introduction to marketing concepts as they apply to sport industry. Consumer behavior, market research, marketing mix, corporate sponsorship, licensing. Discussion, practical application.

KIN 5696. Practicum in Kinesiology. (1-6 cr [max 6 cr]; S-N only. Prereq—KIN student) Practical experience in kinesiology under supervision of a University adviser and an agency supervisor.

KIN 5697. Student Teaching: Coaching. (1-10 cr [max 10 cr]; S-N only. Prereq—admission to coaching program. #) Student coaching experience under supervision of a mentor coach.

KIN 5720. Special Topics in Kinesiology. (1-8 cr [max 8 cr]; 3111, CBN 1027, or equiv) Selected topics in physical activity/human performance.

KIN 5726. Physical Education—Teaming and Trekking. (2 cr; A-F only. Prereq—Kin major, MEd student, or #) Development of cooperative and team-building activities, group planning, and leadership skills in preparation for a two-day trip in a state park using practiced outdoor skills of camping, canoeing, and backpacking. Must be comfortable in water.

KIN 5727. Physical Education—An Adventure Experience. (1-10 cr; A-F only. Prereq—Kin major, MEd student, or #) Group and individual initiatives in an experientially based program emphasizing participation in leadership, group cooperation, problem solving, low ropes, climbing walls, sensible risk taking, and trust-oriented activities.

KIN 5740. Topics: Coaching of Individual, Dual, or Team Sports. (1-9 cr [max 9 cr]; A-F only) Instruction at the advanced level, including analyses of skills, game strategies, specific techniques of coaching, and methods of training and conditioning.

KIN 5801. Legal Aspects of Sport and Recreation. (4 cr; A-F only. Prereq—Kin or rec major) Legal issues related to recreation, park, and sport programs/facilities in public/private sectors.


KIN 5981. Research Methodology in Kinesiology, Recreation, and Sport. (3 cr; A-F only. §KIN 5981) Reviews various types of research in exercise/sport science, physical education, and recreation studies. Qualitative research, field studies, and methods of introduction as alternative research strategies to traditional scientific paradigm.

KIN 5987. Professional Skills and Grant Writing for Health Sciences. (2 cr; A-F only. Prereq—Grad student) Introduction to structure/function of different organizations (e.g., NIH, AHA). Writing/reviewing grants/manuscripts. Preparing for a job in academia.

KIN 5992. Readings in Kinesiology. (1-9 cr [max 9 cr]; A-F only) Independent study under tutorial guidance.

KIN 5995. Research Problems in Applied Kinesiology. (1-6 cr [max 6 cr]; A-F only. Prereq—Grad or MEd student in Kin.) #) Selected topics in physical activity/human performance.


KOR 3021. Intermediate Korean. (5 cr. §KOR 4003. Prereq—1012) Speaking, reading, and writing at intermediate level in modern colloquial Korean. Simple narration/written reports. Some basic Chinese characters may be introduced.


KOR 3290. Korean Language Teaching Tutorial. (1 cr [max 2 cr] Prereq—Grad of A in 3032) Students tutor beginning students of Korean and are part of department’s Korean language team.

KOR 3650. 20th Century Korean Literature in Translation. (3 cr) Various works of Korean literature from colonial age through 1990s. Literary responses to historical changes. Relationship of literary works with historical issues such as colonial experience, Korean civil war and its results, and modern industrial society.


KOR 4002. Beginning Korean. (3 cr. §KOR 1012) Prereq—[4001, passing score on GPT in another language or grad student) Basic grammatical structure, vocabulary, and expressions of modern colloquial Korean. Meets with 1012.

KOR 4003. Intermediate Korean. (3 cr. §KOR 3021) Prereq—[4002, passing score on GPT in another language or grad student) Speaking, reading, and writing in modern colloquial Korean. Simple narration/written reports. Basic Chinese characters may be introduced. Meets with Hmng 3021.


KOR 4006. Third Year Korean. (3 cr. §KOR 3031 or 4005 or #) Speaking, reading, and writing in modern colloquial Korean. Written reports. Further Chinese characters.


LAMP 4172. Pathology for Allied Health Students. (3 cr. Prereq—Regis allied health program, anatomy course, physiology course or #) General and organ system pathology.

LAMP 4177. Pathology for Allied Health Students. (3 cr. Prereq—Regis allied health program, anatomy course and physiology course or #) General and organ system pathology.
LA 3571. Landscape Construction: Site Systems and Engineering. (3 cr; A-F only. Prereq–B.E.D major or B.E.D minor or #) Theory applications of landform systems for design. Landform typology, representation methods, manipulation techniques, use of land survey data, earthwork construction issues. Spatial accommodation of vehicles in landscape architecture, including road design.

LA 5201. Making Landscape Spaces and Types. (6 cr; A-F only. Prereq–B.E.D. accelerated status or LA grad or #) Design exploration using 3-D models and historical precedent studies to create outdoor spaces for human habitation. Emphasis on the application of the basic landscape palette of landform, plants, and structures to give physical, emotional, cognitive, and social definition to created places.

LA 5202. Landscape Analysis Workshop. (1 cr; S-N only) Introduction to field techniques for site analysis, including vegetation, soil, and landfill description. One-week session, before fall term, at lake Itasca Forestry and Biological Station.

LA 5203. Ecological Dimensions of Space Making. (6 cr; A-F only. Prereq–LA major or #; recommended for both B.E.D and Grad students) Design studio experience drawing on ecological, cultural, aesthetic influences to explore development of design ideas responsive to ecological issues and human experience.

LA 5204. Landscape Ecology. (3 cr. Prereq–B.E.D. accelerated status or LA grad student or #) Relationships among spatial patterns, temporal patterns, ecological processes in landscape. Factors affecting landscape patterns, measurement of landscape pattern, material transport through landscape, effects of landscape pattern on population dynamics, landscape planning.


LA 5351. AutoCAD I. (3 cr. Prereq–B.E.D. major or LA grad or #; may not be taken for graduate credit) Basic concepts, tools, and techniques of computer-aided drawing. Introduction to current AutoCAD Release software. Strategies and techniques for producing dimensioned and annotated drawings. Introduction to 3-D drawing capabilities. Use of dimension variables, attributes, blocks, symbols, and creation of customized menus.

LA 5352. AutoCAD II. (3 cr. Prereq–ARCH 5351 or LA 5351) B.E.D major or LA grad or #; may not be taken for graduate credit) Intermediate concepts, tools, and techniques of computer-aided drawing with current AutoCAD Release software. Strategies and techniques for producing dimensioned and annotated drawing. Use of dimension variables, attributes, blocks, symbols, and creation of customized menus.

LA 5371. Computer Methods I. (1 cr. S-N only. §ARCH 5371. Prereq–B.E.D. accelerated status or LA grad or #) Introduction to current computer programs, and new editions of computer programs, and their application to landscape architecture computing. 

LA 5372. Computer Methods II. (1 cr. S-N only. §ARCH 5372. Prereq–Arch/ARCH 5371, LA grad or #) Current techniques and computer programs, and their application to landscape architecture computing.

LA 5373. Computer Methods III. (3 cr. §ARCH 5373. Prereq–LA grad or #) Advanced techniques and computer programs, and their application to landscape architecture computing in design, theory, and technology.
Course Descriptions

Latin (LAT)
Department of Classical and Near Eastern Studies
College of Liberal Arts


LAT 1002. Beginning Latin II, (3 cr. Prefer–Grade of at least C- or S in 1001 or #) Latin grammar/syntax. Graduated readings from Roman authors, including Cicero, Catullus, and Roman comedy.


LAT 1103. Selections from Latin Literature, Transition, (3.33 cr; A-F only) Prose/poetry. Historical/literary background. LAT 1111H. Honors Course: Beginning Latin, (3 cr. §§LAT 1001, LAT 3111, LAT 3111H. Prefer–Concurrent registration required in 1112; regis in honors program or high ability as indicated by high school transcript) Intensive Latin course covering material usually taught over two semesters. Students must also register for 1112 when taking this class.

LAT 1112H. Honors Course: Beginning Latin, Recitation. (3 cr. Prefer–Concurrent registration in 1111, regis in honors program or high ability as indicated by high school transcript) Drills and composition exercises. Students must also register for 1111 when taking this class.

LAT 3000. Reading Latin Prose. (3 cr. Prefer–1002 or 1112 or 3111 or 3112 or #) Introduction to reading Latin prose. Selections from Roman authors. Review of grammar/syntax. Follow-up course to intensive Latin or review for students returning to reading Latin after time lapse.

LAT 3111. Intensive Latin, I, (3 cr. §§LAT 1001, LAT 1111H. Prefer–Concurrent registration in 3112; previous exp in another foreign language desirable) Intensive Latin course covering material usually taught over two semesters. Undergraduates must also register for 3112 when taking this class.

LAT 3112. Intensive Latin, Recitation. (3 cr. Prefer–Concurrent registration in 3111; previous exp in another foreign language desirable) Drills and composition exercises. Students must also register for 3111 when taking this class.

LAT 3113. Intermediate Latin Prose, (4 cr. Prefer–Grade of at least C- or S in 1002 or 1112H or 3112 or #) Reading Latin. Reviews elementary grammar, vocabulary, and morphology. Introduction to major themes/issues in Latin literature and Roman culture.

LAT 3114. Augustan Latin Authors, (4 cr. Prefer–3113 or A) Students progress from intermediate to advanced Latin reading while surveying the world of Augustan Rome. Authors include Livy, Vergil, and Ovid.

LAT 3300. Intermediate Latin Poetry, (4 cr [max 8 cr]) Prefer–Grade of at least C- or S in 3113 or #) Readings in Latin poetry. Introduction to Latin Meter. Vergil and Catullus/Ovid offered in alternate years.

LAT 3310. Advanced Undergraduate Latin: History, (3 cr [max 12 cr]. Prefer–3114 or equiv or #) Roman history as the Romans wrote it; selections from Livy, Sallust, Tacitus, or Ammianus.

LAT 3320. Advanced Undergraduate Latin: Belles-Lettres, (3 cr [max 12 cr]. Prefer–3114 or equiv or #) Selections from expository Latin literature (essays, epistles, monographs).

LAT 3330. Advanced Undergraduate Latin: Oratory, (3 cr [max 12 cr]. Prefer–3114 or equiv or #) One or more appropriate authors studied each semester.

LAT 3340. Advanced Undergraduate Latin: Epic/Pastoral, (3 cr [max 12 cr]. Prefer–3114 or equiv or #) One or more appropriate authors studied each semester.

LAT 3350. Advanced Undergraduate Latin: Lyric/Elegiac, (3 cr [max 12 cr]. Prefer–3114 or equiv or #) One or more appropriate authors studied each semester.

LAT 3360. Advanced Undergraduate Latin: Drama, (3 cr [max 12 cr]. Prefer–3114 or equiv or #) One or more appropriate authors studied each semester.

LAT 3370. Advanced Undergraduate Latin: Satire, (3 cr [max 12 cr]. Prefer–3114 or equiv or #) One or more appropriate authors studied each semester.

LAT 3440. Advanced Undergraduate Latin: Later Latin, (3 cr [max 12 cr]. Prefer–3300 or 3114) Reading course. Authors of Late Antiquity, Middle Ages, and Renaissance. Topics specified in Class Schedule.

LAT 3450. Advanced Undergraduate Latin: Classical Authors, (3 cr [max 12 cr]. Prefer–3114 or A) Readings from various classical Latin authors. Topics specified in Class Schedule.

LAT 3951W. Major Project. (4 cr. Prefer–[Greek-Latin or Latin major], three 300 Latin courses, A, A) Research project using documents and other sources from the ancient world. Students select project in consultation with a faculty member who directs the research and writing.

LAT 3960H. Honors Course: Advanced Undergraduate Latin Reading, (3 cr. [max 12 cr. Prefer–Flag in honors program or high ability as indicated by transcript] Student attends Latin 33xx, 3440, or 3450 and does additional work for honors credit.

LAT 3993. Directed Studies, (1-4 cr [max 12 cr]. Prefer–#) Guided individual reading or study.

LAT 5012. Latin Prose Composition, (3 cr. Prefer–Grad student or #) Latin grammar, syntax, diction, and prose style. Graduated exercises in prose composition.


LAT 5033. Epigraphy, (3 cr. Prefer–Grad student or #) Practical/theoretical introduction to Latin epigraphy (study/interpretation of inscriptions). Readings/discussion of epigraphic texts. Focuses on their value as historical documents, as evidence for development of Latin language, and as literary texts.

LAT 5310. Latin Literature: History, (3 cr [max 12 cr]. Prefer–Grad student or #) One or more authors.

LAT 5320. Latin Literature: Epistles and Essays, (3 cr [max 12 cr]. Prefer–Grad student or #) One or more authors.

LAT 5330. Latin Literature: Oratory, (3 cr [max 12 cr]. Prefer–Grad student or #) One or more authors.

LAT 5340. Latin Literature: Epic and Pastoral, (3 cr [max 12 cr]. Prefer–Grad student or #) One or more authors.

LAT 5350. Latin Literature: Lyric and Elegiac Poetry, (3 cr [max 12 cr. Prefer–Grad student or #) One or more authors.

LAT 5360. Latin Literature: Latin Dramatists, (3 cr [max 12 cr. Prefer–Grad student or #) One or more authors.

LAT 5370. Latin Literature: Satire, (3 cr [max 12 cr. Prefer–Grad student or #) One or more authors.

Language, Teaching, and Technology (LGTT)
Institute of Linguistics, ESL, and Slavic Languages and Literatures

College of Liberal Arts

LGTT 5101. Applications of Technology in Language Teaching, (3 cr) Explore uses of technology in language teaching; theoretical background, demonstrations, and applications.


LGTT 5110. Special Topics in Language Teaching and Technology, (1-3 cr [max 12 cr]) Examine, evaluate, apply specific area of technology to K-higher education, second/foreign language teaching/learning in classroom, independent study, distance education environments.


For definitions of course numbers, symbols, and abbreviations, see page 300.