

Cork (UCC) in Ireland, additional course work is required through Potsdam University in Germany. For students who satisfy all degree requirements, a joint B.S. degree in International Field Geosciences will be awarded by The University of Montana and the University College Cork.

The following UM Geoscience courses are required to earn this degree: GEO 101N ; GEO 102N; GEO 211; GEO 226; GEO 228, GEO 231; GEO 315; GEO 442 or 443; and GEO 429. Also required are a minimum of 12 credits in upper division UM Geoscience courses selected from among the following: GEO 305, 310, 311, 320, 327, 420, 433, 442, 443, 460, 491 plus GRMN 101/102 or ENIR 101/102.

In addition to Geosciences coursework completed at UM, students must complete one formal field course run by the Institute of Earth and Environmental Science at Potsdam University to sites in and around Europe (arranged in consultation with advisor) plus one formal field course module run by University College Cork, selected from GL 2016 (Easter Field Course - Dingle Peninsula), GL3019 (Easter Field Course - Western Scotland), ER3002 (Easter Field Course - North Clare) GL4008 (Easter Field Course - Central Greece) or another equivalent-level field course run by UCC and approved a priori by their UCC and UM advisors. In addition, while in residence at Cork, students must complete any nine of the following courses in consultation with their UCC and UM advisors: Sed. processes and petrology; Igneous and MM Petrology; Invertebrate Paleontology & Evol.; Plate Tect. & Global Geophys.; Igneous petrogenesis & Geochem; Metamorphism & Geochronology; Advanced Structural Geology; Sedimentary Environments; Stratigraphy & Geologic Maps; Environmental Geology; Terr.I Ecosystems through time; Micropaleontology & Palynology; Petroleum Geol. & Basin Analysis; Appl. Geophys. & Comp Apps.; Advanced Igneous Petrology; Hydrogeology.

Students seeking this degree must also complete one additional formal upper-level Geosciences course at Potsdam University during their year abroad. Recommended are courses that focus on computer-based visualization of geoscience data, using GIS or other visualization platforms. Along with the formal Geoscience course work completed at UM and abroad, students earning this degree must complete a minimum of 27 credits in cognate sciences classes, including the following: PHSX 205N/206N-207N/208N or PHSX 215N/216N - 217N/218N; CHMY 121N/123N or CHMY 141N/143N; M 162/274 OR M 171/172; three credits in Computer Science (modeling or programming), or GIS or Statistics. Also required is one year of college German, GRMN 101/102 or one year of college-level Gaelic (ENIR/IRSH 101 and ENIR/IRSH 102) and completion of general education requirements relevant to German and Irish culture and history.

International Field Geosciences Dual Degree with Potsdam University (Germany)

This option is designed specifically for students who seek to combine a rigorous education in the Geosciences with a year-long international geosciences experience and an emphasis on field-based learning. It requires attending classes and living overseas. Students demonstrating a high level of performance at the University will be eligible for partial financial support as funds are available. Although most of the course work completed during the year abroad will take place at University Potsdam in Germany, additional course work is required at the University College Cork in Ireland. For students who satisfy all degree requirements, a B.S. degree in International Field Geosciences will be awarded by The University of Montana and a second B.S. degree in International Field Geosciences will be awarded by Potsdam University. The following UM Geoscience courses are required to earn this degree: GEO 101N ; GEO 102N ; GEO 211 ; GEO 226 ; GEO 228, GEO 231 ; GEO 326 ; and GEO 429 . Also required are a minimum of 15 credits in upper division UM Geoscience courses selected from among the following: GEO 305, 310, 311, 315, 320, 327, 420, 433, 438, 443, 437, 442, 460, 491 .

In addition to Geoscience coursework completed at UM, the following overseas field-based Geoscience courses are required: BP15 (Field course France, run by Potsdam) or BW01 (Field course-Norway, run by Potsdam) or BW02 (Field course-Alps, run by Potsdam); plus one of the following courses offered by University College Cork; GL 2016 (Easter Field Course-Dingle Peninsula), GL3019 (Easter Field Course-Western Scotland), ER3002 (Easter Field Course-North Clare), GL4008 (Easter Field Course-Central Greece) or another equivalent-level field course run by UCC that and approved a priori by their Potsdam and UM advisors. Students seeking this degree must also complete any four of the following courses offered by Potsdam University: Regional Geology; Paleoclimate & Quaternary Geology; Analysis of Geologic maps; Analytic Geochemistry; Natural Hazards; Tectonophysics & Rheology; Seismology; Seismics; Geoelectrics; Sedimentary systems & stratigr. Geomorphology; Tectonics and geodynamics.

Along with the formal Geoscience course work, students earning this degree must complete a minimum of 27 credits in cognate sciences classes, including the following: PHSX 205N/206N-207N/208N or PHSX 215N/216N - 217N/218N; CHMY 121N/123N or CHMY 141N/143N; M 162/274 or M 171/172; three credits in Computer Science (modeling or programming), or GIS or Statistics. While overseas, the students must complete two additional cognate science courses at Potsdam University. Also required is one year of college German GRMN 101/102 and completion of general education requirements relevant to German and Irish culture and history.

Option in Earth Science Education

Major Teaching Field of Earth Science: A student must complete GEO 101N, 102N, 105N, 231, 226, 211 or 228, 310, 315, 3 additional credits from any geosciences course numbered 100 or above and 12 credits from any geosciences courses numbered 300 or above. Also required are EARTH 303N, ASTR 131N-132N, M 151, STAT 341, CSCI 100, CHMY 485, and EDU 497. One of BIOE 172N or CHMY 121N/123N or PHSX 205N/206N, 207N/208N; must be completed. For endorsement to teach earth science, a student also must gain admission to Teacher Education Program and meet the requirements for teaching licensure (see the College of Education section of this catalog). Students must complete the requirements for the required second teaching endorsement (major or minor). Students should develop their course of study with an Education advisor.

Suggested Course of Study

Students enter our degree program from a number of different directions. Yet, our general advising remains the same. Students should plan on starting their math and chemistry sequences as freshman and beginning the physics sequence as sophomores. The following is provided as a planning guideline for the B.S. Geosciences degree option and assumes adequate high-school preparation in mathematics, chemistry and physics. If more preparation is needed in those disciplines, the student should develop a course of study with a Geosciences Department advisor. Students pursuing either of the International Field Geosciences B.S. degree programs (IFG-dual or IFG-joint) should see the IFG advisor to develop a course of study that meets those requirements because they are substantially different than the Geosciences B.S. degree program.

Geosciences B.S.

	First Year	A	S
CHMY 141N (CHEM 161N) College Chemistry I	5	-	
CHMY 143N (CHEM 162N) College Chemistry II	-	5	
M 171 (MATH 152) Calculus I	4	-	
M 172 (MATH 153) Calculus II	-	4	
GEO 101N/102N (GEOS 100N/101N) Intro to Physical Geology	4	-	
GEO 211 (GEOS 200) Earth History and Evolution	-	2	
General Education & WRIT 101 (ENEX 101) College Writing (as needed)	3	4	
Total	16	15	
	Second Year	A	S
GEO 226 (GEOS 226) Rocks, Minerals, and Resources	4	-	
GEO 228 (GEOS 228) Earth Surface Processes	-	2	
GEO 231 (GEOS 230) Geosciences Field Methods	-	2	
PHSX 215 & 216 (PHYS211N/213N) Fundamentals of Physics with Calc I & Lab	5	-	
PHSX 217N/218N (PHYS 212N/214N) Fundamentals of Physics with Calc II & Lab II	-	5	
Electives and General Education	6	6	
Total	15	15	
	Third Year	A	S
GEO at 300 level or above	6/8	-	
GEO at 300 level or above	-	6/8	
GIS/Computer Science/Statistics	3/4	-	
Electives and General Education	3/6	7/9	
Total	15	15	
	Fourth Year	A	S
GEO at 300 level or above ¹	3/4	3/4	
Upper Division Writing Course or Senior Thesis ³ (GEO 320 or 499)	3	3	
Additional cognate science or Independent Research ^{2*}	3/2	3/2	
Electives and General Education	6	6	
Total	15	15	

1. A total of 30 additional science credits are required. See special degree requirements. 2. GEO 429 (6 cr), Field Geology can

also be taken in the summer to meet upper division Geosciences course requirements. 3. A Senior Thesis must be approved and mentored by a Geosciences faculty member and should be started no later than the fall of the student's senior year and completed by the end of spring semester.

Requirements for a Minor

To earn a minor in Geosciences the student must complete at least ~~18~~ 21 credits of Geosciences courses. A typical sequence is GEO 101N (or 105N or 106N or 108N), and GEO 102N, GEO 211, GEO 226, GEO 228 and GEO 231; plus 300-400 level Geosciences courses for a total of 18 credits or more. However, any sequence of Geosciences courses is acceptable with the consent of a Geosciences advisor and approval by the Chair. All courses must be taken for a traditional letter grade, and meet the minimum university grade requirements for major and minor course work (C-).

Courses

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

Geosciences (GEO)

U 101N (GEOS 100N) Intro to Physical Geology 3 cr. Offered autumn and spring. General geology including the work of wind, flowing water, glacial ice, gravity, earthquakes, volcanoes and plate tectonics in shaping the earth.

U 102N (GEOS 101N) Intro to Physical Geology Laboratory 1 cr. Offered autumn and spring. Prereq. or coreq., GEO 101N (preferred) or 105N or 108N (GEOS 100N or 105N or 108N). A series of laboratory and field experiences designed around basic geologic processes and materials. Familiarization with common minerals, rocks, land forms, and structures. Intended to provide laboratory experience primarily with GEO 101N, but can be taken with or following any of the other freshman GEO courses listed above.

U 105N (GEOS 105N) Oceanography 3 cr. Offered spring. Origin of sea-water and ocean basins; currents, tides, and coastal processes; use and misuse of the oceans by humans.

U 106N (GEOS 106N) History of Life 3 cr. Offered spring. The evolution of plants, invertebrates and vertebrate animals, highlighting major events in the evolution of life on Earth. Includes laboratory experience with fossils.

U 107N (GEOS 103N) Natural Hazards 3 cr. Offered spring. Examination of volcanism, earthquakes, landslides, floods, coastal erosion, hurricanes, and asteroid impacts. Emphasis on processes, recognition and consequences of catastrophic events, and how to minimize their societal impacts.

U 108N (GEOS 108N) Climate Change 3 cr. Offered autumn. The geoscience perspective on the earth's climate system. Climate processes and feedbacks, climate history from early earth to the ice ages, present and future changes due to natural processes and human activities.

U 151 (GEOS 151) Introduction to Fossil Fuels 3 cr. Offered autumn. A broad introduction to the basic principles and concepts related to the exploration for, the composition of, and the utilization of fossil fuels (coal, coal bed methane, natural gas, and oil). Environmental issues related to fossil fuel development and utilization are also addressed.

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

U 211 (GEOS 200) Earth History and Evolution 2 cr. Offered autumn. Traces the history of the earth since its inception 4.5 billion years ago. Presents scientific theories for the origin of the earth and the nature of important earth shaping events of the past, including the development of the oceans, atmosphere and climate.

U 226 (GEOS 226) Rocks, Minerals and Resources 4 cr. Offered spring. Prereq., any geoscience 100 level lecture course, GEO 102N (GEOS 101N), CHMY 121N or 141N (CHEM 151N or CHEM 161N). Study of minerals and rocks utilizing an Earth

Systems approach; mineral identification and paragenesis; survey of the distribution of minerals from the interior to the surfaces of planets and the processes that led to their formation.

U 228 Earth Surface Processes 2 cr. Spring semester. Prereq. GEO101N-102N Introduction to the physical processes that affect the surface of the Earth, including global-scale energy distribution and balance, the hydrologic cycle, climate, weathering, transport mechanisms, and geomorphic processes.

U 231 (GEOS 230) Geosciences Field Methods 2 cr. Offered autumn and spring. Prereq. GEO 101N-102N (GEOS 100N-101N). This course introduces students to a variety of field methodologies routinely used in the collection, processing, and interpretation of geoscientific field data.

U 291 (GEOS 295) Special Topics Variable cr. (R–6) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one–time offerings of current topics.

U 304E (GEOS 304E) Science and Society 3 cr. Offered autumn. Role of scientific knowledge in human societies from the pre–Classical to the present. Discussion of tools for integrating science into ethical, political, and social decisions, including analyses of modern case studies from physical sciences.

U 305 (GEOS 306) Igneous and Metamorphic Petrology 4 cr. Offered spring. Prereq., GEO 226 (GEOS 226), CHMY 143N (CHEM 162N). Igneous rock associations, igneous processes and origins; metamorphic minerals and phase relationships, metamorphic zones, facies, and conditions; metamorphic environments, metallic minerals and mineral deposits.

U 309 Sedimentation and Stratigraphy 4 cr. Offered spring. Prereq. GEO 101N-102 (GEOS 100N-101N) or 211 (GEOS 200), 226 (GEOS 226). Origins of sediments and sedimentary rocks; climate, weathering, and weathering products; transport, deposition, and depositional environments of sediments; concepts and methods of stratigraphy including correlation of sedimentary rocks and an introduction to basin analysis.

U 311 (GEOS 311) Paleobiology 3 cr. Offered autumn. Prereq. GEO 101N (GEOS 100N) or equiv. level Biology. Survey of the major groups of organisms in the geologic record and hands-on study of fossils; application of geologic and biologic data and principles to solve problems in geoscience and bioscience.

U 315 (GEOS 330) Structural Geology 3 cr. Offered autumn. Prereq., GEO 226 (GEOS 226). Structures of deformed rocks; mechanical principles; graphical interpretation of structural problems, tectonic principles.

U 317 (GEOS 309) Planetary Science 3 cr. Offered autumn even-numbered years. Prereq., PHSX 205N/206N or PHSX 215N/216N (PHYS 111N/113N or 211N/213N) and M 162, 171 (MATH 150, 152). Same as ASTR 351. Physical and geological characteristics of planets, satellites, asteroids, comets, and meteoroids with an emphasis on comparative planetology.

U 320 (GEOS 320) Global Water 4 cr. Offered spring. Prereq., one semester of college chemistry, WRIT 101 (ENEX 101) or equiv., and completion of one writing course. Students are encouraged to take the UDWPA prior to taking this course. Study of the chemistry of water as it moves through the hydrological cycles; discussion of how water chemistry evolves through atmospheric water, precipitation, ground water, and surface water.

U 326 (GEOS 302) Sedimentary Geology Field Trip 2 cr. Offered spring. Prereq., GEO 101N (GEOS 100N). Examination of modern and ancient sedimentary depositional systems in the field through a 9-day spring break field trip. Possible areas of focus include the Permian Reef Complex of West Texas, the California convergent margin, Oregon coastal processes, geology of the Basin and Range, Death Valley Region, Colorado Plateau, and Oklahoma Aulacogen.

U 327 (GEOS 327) Geochemistry 4 cr. Offered alternate years. Prereq., one year of college chemistry, one semester of calculus, and one semester of physical geology, or consent of instructor. One semester of mineralogy recommended. Chemical principles applied to geologic processes. Origin and chemical composition of earth, atmosphere, and hydrosphere. Methods of radiometric dating and isotope applications.

U 391 (GEOS 395) Special Topics Variable cr. (R–9) Offered intermittently. Experimental offerings of visiting professors,

experimental offerings of new courses, or one-time offerings of current topics.

U 392 (GEOS 396) Independent Study Variable cr. (R-6) Offered every term. Specific topics of particular interest to individual students.

U 398 (GEOS 398) Internship Variable cr. Offered every term. Prereq., 12 credits in geosciences. Extended classroom experience which provides practical application of classroom learning during placements off campus. Prior approval must be obtained from the faculty supervisor and the Internship Services office. No more than 3 credits of GEO 398 (GEOS 398) may be applied to the geosciences minor. A maximum of 6 credits of Internship (198, 298, 398, 498) may count toward graduation.

UG 408 (GEOS 407) Global Biogeochemical Cycles 3 cr. Offered spring odd numbered years. Same as NRSM 408 (FOR 408, BIOL/CCS 407). Exploration of how variations in the availability or utilization of critical Earth elements influences the atmosphere, the oceans, and the terrestrial biosphere including the natural and agricultural ecosystems on which we depend.

UG 420 (GEOS 480) Hydrogeology 4 cr. Offered autumn. Prereq., GEO 101N (GEOS 100N)-102N; PHSX 205N/206N or PHSX 215N/216N (PHYS 111N/113N or 211N/213N) ; M 162 or 171 (MATH 150 or 152) strongly recommended or consent of instr. Occurrence, movement, quality, and methods of quantification of groundwater. Geological framework and physics of groundwater flow. Supply, contamination, and management problems.

UG 421 Hydrology 3 cr. Offered autumn semester. Prereq. one semester college calculus and physics or consent of instructor. Introduction to the physical mechanisms that drive the water cycle at different scales. The course covers heat, momentum and mass transfer and storage mechanisms in turbulent systems and their role in the global and local climates. At the local scale, the equations that govern surface and subsurface water flows are studied. Along with the overarching goals, students will improve their quantitative skills, will gain experience accessing and reading the professional literature and will improve their capabilities to acquire knowledge independently.

UG 426 (GEOS 402) Sedimentary Geology Field Trip 2 cr. Examination of sedimentary depositional systems through a nine-day spring break field trip off campus.

U 429 (GEOS 429) Field Geology 6 cr. Offered summer. Prereq., GEO 315 (GEOS 330) and consent of instr. Geologic mapping on aerial photos and topographic base maps. Field interpretation in a variety of rock types and structures. Taught every summer near Dillon, Montana. Extra fees. Pre-registration in early spring.

UG 433 (GEOS 430) Global Tectonics 3 cr. Offered spring. Prereq., GEO 315 (GEOS 330), M 162 (MATH 150), and 2.25 or better overall GPA in geosciences courses. Geodynamics and tectonics of the Earth and other planets. Course material includes methods of observing tectonic processes and tectonic phenomena, both at the surface and in the deep earth, over a wide range of time scales.

UG 436 Subsurface Imaging in Archaeology 3 cr. Offered Spring. Prereq., successful completion of UM general education requirements for math and natural science. Applied and theoretical aspects of radar, magnetics, gravity, and electrical methods related to the detection of buried archaeological features. The focus is on the development of experimental design, data acquisition, processing, and interpretation. Course content is also applicable to shallow environmental sources and problems.

UG 439 Applied Magnetics 3 cr. Offered Spring. Prereq. or coreq., M 172 or M 274 (MATH 153 or 158), GEO 101N-102N (GEOS 100N-101N), PHSX 205N/206N (PHYS 111N/113N). Theory and applications of magnetic exploration and paleomagnetism directed at: plate trajectories, continental deformation, Precambrian Euler poles, and the delineation of buried sources ranging in scale from environmental targets to continental sutures. Includes 2D frequency-domain signal processing of potential fields and the pitfalls of forward and inverse modeling.

UG 442 (GEOS 432) Architecture of Sedimentary Deposits 4 cr. Offered autumn alternate years. Study of the architectural elements and composition of sedimentary deposits in the context of their tectonic environments and their influence on petroleum and hydrogeologic systems.

UG 443 (GEOS 433) Sedimentary Petrology 4 cr. Offered autumn alternate years. Prereq., graduate standing or GEO 442

(GEOS 432). Field, hand specimen and thin section petrology of siliciclastic and carbonate rocks, emphasis on tectonic and diagenetic interpretation of siliciclastic rock and environments of deposition and diagenesis of carbonate rocks.

UG 451 (GEOS 451) Petroleum Geology 3 cr. Offered spring. Prereq. GEO 309 (GEO 317), GEO 315, CHMY 141N (CHEM 161N), PHSX 205N/206N (PHYS 111N/113N). M 162 (MATH 150) strongly recommended. Origin, migration, and entrapment of hydrocarbons in sedimentary basins. Course integrates several areas of geology with geophysics, geochemistry and engineering.

UG 460 (GEOS 460) Process Geomorphology 4 cr. Offered autumn, alternate years. Coreq., one year college calculus and physics. Quantitative examination of landforms, runoff generation, weathering, mechanics of soil erosion by water and wind, mass wasting, glacial and periglacial processes and hillslope evolution.

UG 482 (GEOS 382) Global Change 3 cr. Offered Spring. Prereq., upper division/higher standing in Geosciences or consent of instructor. Lectures, readings, discussions and practicum on the complexity of global climate. Emphasizes the physical, geochemical and geologic processes affecting climate change over geologic and recent time scales.

UG 488 (GEOS 488) Snow, Ice and Climate 3 cr. Offered spring. Prereq., M 121 (MATH 100). Study of basic physical processes occurring in snow and ice, and how these processes govern the interaction between frozen water and the climate system. The first half of the course focuses in snow, with special attention to snow formation in the atmosphere, snow metamorphism, water flow through snow, and basic avalanche mechanics. The second half of the course focuses on ice and includes glacier and ice sheet flow dynamics, glacier hydrology, and ice age theory. Graduate students will be required to complete additional problem sets requiring higher level math; perform additional reading assignments; perform at a higher level on assignments and exams where students are asked to outline and describe various physical processes; submit a well researched and reference research proposal that is able to synthesize previous research and provide a sophisticated research plan.

UG 491 (GEOS 495) Special Topics 1-8 cr. (R-8) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses or one-time offerings of current topics.

UG 492 (GEOS 496) Independent Study Variable cr. (R-6) Offered every term. Specific topics of particular interest to individual students.

U 493 (GEOS 493) Omnibus Variable cr. (R-10) Offered intermittently. Independent work under the University omnibus option. See index.

UG 494 (GEOS 494) Senior Geology Seminar 1-10 cr. (R-10) Offered intermittently. Prereq., upper-division standing in geosciences or consent of instr. Independent study of various topics under the direction of a faculty member.

U 499 (GEOS 499) Senior Thesis/Capstone 3-10 cr. (R-10) Offered every term. Prereq., 18 credits in geosciences. Independent research project in any geosciences topic supervised by faculty member, and leading to completion of baccalaureate degree.

G 502 (GEOS 502) Thesis/Dissertation Proposal 1 cr. Offered spring. Work with advisors to choose a research project and write a proposal.

G 508 (GEOS 508) Fundamentals of Academic Research 2 cr. Offered autumn. Prereq., graduate standing. An introduction to research methods and tools in the academic setting intended for first semester graduate students in geosciences. Topics include proposal writing, presenting research results in oral and written formats, using computer tools for research in the geosciences, and ongoing research of department faculty.

G 522 (GEOS 522) Metamorphic Terrain Analysis 3 cr. Offered autumn. Introduction to techniques used to analyze burial and uplift histories of metamorphic terrains. Topics include: geochronology, including closure temperature theory and the use of geochronologic systems as thermochronometers; geothermometry and geobarometry; quantitative thermodynamic modeling of P-T paths; heat flow and the thermal structure of orogenic belts.

G 528 (GEOS 528) Sedimentary Basin Analysis 4 cr. Offered autumn. Influence of allocyclic processes (tectonism, climate, eustasy, etc.) in shaping the evolution of sedimentary basins. Emphasis on integration and synthesis of tools of sedimentary basins analysis, including the study of depositional systems, provenance, paleocurrents, subsidence, sequence stratigraphy, and well logs.

G 531 (GEOS 531) Environmental Geochemistry of Metal Contamination 4 cr. Offered autumn. Prereq., GEO 570, 579 (GEOS 570, 579); CHMY 442 (CHEM 442); FOR 511 or consent of instr. Integration of major processes and cycles transporting, fixing, and transforming inorganic contaminants in aquatic systems, soils, sediments and subsurface environments. Concentration on research to solve complex environmental problems.

G 548 (GEOS 548) Topics in the Cryosphere 3 cr. (R–6 M.S., R–12 Ph.D.) Offered spring. Prereq., graduate standing or consent of instructor. Readings, discussions, lectures, and field experiments on various topics related to snow, ice, and climate processes. Recent topics: meltwater infiltration in snow, glacier hydrology, climate cycles, ice, and sea level rise.

G 560 (GEOS 560) Fluvial Geomorphology 3 cr. Offered autumn. Prereq., graduate standing or consent of instructor. Application of fluid mechanics to sediment transport and development of river morphology. Form and process in river meanders, the pool–riffle sequence, aggradation, grade, and baselevel.

G 570 (GEOS 570) Aqueous Geochemistry 4 cr. Offered alternate years. Prereq., one year college chemistry and one year of calculus, or consent of instructor. Chemistry of aqueous systems including aqueous kinetics, aqueous thermodynamics, acid/base chemistry, carbonate systematics, oxidation/reduction reactions, mineral solubility, and complexation. Includes an introduction to the use of geochemical models. Concepts applied to natural systems.

G 572 (GEOS 572) Advanced Hydrogeology 3 cr. Offered spring. Prereq., GEO 420 (GEOS 480) or consent of instr. Advanced concepts used in groundwater investigations, including flow systems analysis, hydrogeologic monitoring and sampling, resource evaluation, exploration, development and monitoring, and contaminant transport. Special problem areas in groundwater exploration and management.

G 573 (GEOS 573) Applied Groundwater Modeling 3 cr. Offered autumn. Prereq., GEO 420 (GEOS 480) or consent of instr. Development of numerical modeling techniques, finite difference and finite element modeling of groundwater flow systems. Application of standard 2D and 3D models to field problems.

G 579 (GEOS 579) Geochemistry of Hot Springs 3 cr. Offered alternate years. Prereq., one year of college of chemistry or consent of instr. Chemistry and geology of hydrothermal systems including solute/gas geothermometry, acid/base reactions, oxidation/reduction reactions, mineral equilibrium, and microbial ecology as applied to terrestrial and submarine hydrothermal systems. Includes an introduction to the use of geochemical models.

G 580 (GEOS 580) Topics in Mineralogy and Petrology Variable cr. (R–6 for M.S., R–12 for Ph.D.) Prereq., consent of instr. Offerings on request of graduate students by arrangement with appropriate faculty. Recent topics: tectonics and petrology; alkaline igneous rocks.

G 582 (GEOS 582) Topics in Structure and Geophysics Variable cr. (R–6 for M.S., R–12 for Ph.D.) Prereq., consent of instr. Offerings on request of graduate students by arrangement with appropriate faculty. Recent topics: structural analysis, Precambrian crustal evolution, field trips on Rocky Mountain structure.

G 583 (GEOS 583) Topics in Stratigraphy, Sedimentation and Paleontology Variable cr. (R–6 for M.S., R–12 for Ph.D.) Prereq., consent of instr. Offerings on request of graduate students by arrangement with appropriate faculty. Recent topics: evolution of life; Proterozoic stratigraphy; reefs through time.

G 585 (GEOS 585) Topics in Hydrogeology and Low–Temperature Geochemistry Variable cr. (R–6 for M.S., R–12 for Ph.D.) Prereq., consent of instr. Offerings on request of graduate students by arrangement with appropriate faculty. Recent topics: field methods, well design, contaminant transport, geochemical modeling.

G 587 (GEOS 587) Topics in Geomorphology Seminar Variable cr. (R–6 for M.S., R–12 for Ph.D.) Offered alternate years. Prereq., consent of instr. Reading and discussion of relevant papers. Offerings on request of graduate students by

arrangement with appropriate faculty. Recent topics: landscape evolution; weathering processes; tectonic geomorphology.

G 590 (GEOS 590) Supervised Internship 1–12 cr. Offered intermittently.

G 595 (GEOS 595) Special Topics Variable cr. (R–8) Offered intermittently. Prereq., consent of instr. Experimental offerings of visiting professors, experimental offerings of new courses, or one–time offerings of current topics.

G 597 (GEOS 597) Advanced Problems Variable cr. (R–10) Offered intermittently. Prereq., consent of instr. Investigations of geological problems exclusive of thesis or dissertation research.

G 599 (GEOS 599) Thesis Research Variable cr. (R–6) Offered every term. Prereq., thesis proposal approval. Directed research to serve as thesis for the master degree. Credit assigned upon submittal of final copy of approved and bound thesis.

G 699 (GEOS 699) Dissertation Research Variable cr. (R–12) Offered every term. Prereq., dissertation proposal approval. Directed research to serve as dissertation for the Ph.D. degree. Credit assigned upon submittal of final copy of approved and bound dissertation.

Faculty

Professors

Marc S. Hendrix, Ph.D., Stanford University, 1992

Nancy W. Hinman, Ph.D., University of California (San Diego), 1987

Johnnie N. Moore, Ph.D., University of California (Los Angeles), 1976 (Chair)

James W. Sears, Ph.D., Queen's University, 1979

Steven D. Sheriff, Ph.D., University of Wyoming, 1981

George D. Stanley, Ph.D., University of Kansas, 1977

James R. Staub, Ph.D., University of South Carolina, 1985

William W. Woessner, Ph.D., University of Wisconsin (Madison), 1978

Associate Professors

Rebecca O. Bendick, Ph.D., University of Colorado, Boulder, 2000

Joel T. Harper, Ph.D., University of Wyoming, 1997

Assistant Professors

Julia A. Baldwin, Ph.D., Massachusetts Institute of Technology, 2003

Marco P. Maneta, Ph.D., University of Extremadura (Spain), 2006

Andrew C. Wilcox, Ph.D., Colorado State University, 2005

Emeritus Professors

David Alt, Ph.D., University of Texas, 1961

Donald W. Hyndman, Ph.D., University of California (Berkeley), 1964

Ian M. Lange, Ph.D., University of Washington, 1968

Raymond C. Murray, Ph.D., University of Wisconsin, 1955

Graham R. Thompson, Ph.D., Case Western Reserve, 1971

John P. Wehrenberg, Ph.D., University of Illinois, 1956

Donald Winston, Ph.D., University of Texas, 1963

Global Public Health

- Requirements for a Minor
- Faculty

Peter Koehn (Professor of Political Science), Advisor

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Global Public Health (GPH) is an interdisciplinary field of study focusing on big issues facing the world community that will require insight and problem-solving leadership from future generations. Coursework in the minor emphasizes a global perspective on issues of public health policy and science and applications to transnational and local (including tribal) situations and challenges. Approved by the Board of Regents in March 2012, the GPH minor takes advantage of existing faculty expertise and courses to offer an interdisciplinary experience for interested undergraduate students. From a remarkable cross-campus team of highly qualified instructors, University of Montana students will learn about such transnationally interconnected challenges to public health as parasitic and vector-borne diseases, HIV/AIDS prevention and treatment, tuberculosis, climate-change impacts, trauma and violence, cancer prevention, obesity, maternal and child illnesses, nutrition, and the role of indigenous healers. The 21-credit curriculum is structured to ensure that students develop enduring understanding of determinants of illness, healing, and health from an interdisciplinary and comparative perspective. The curriculum also treats transnational, cultural, and ethical diversity and the interplay of biological, genetic, environmental, and societal forces that underlie individual and population health and illness, global health governance, and health policy within a cross-cutting exploration of ways to promote healthy behaviors and health equity. Core faculty will explore public-health issues utilizing insights available from disciplinary approaches that include epidemiology, anthropology, biology, political science, community-health planning, communication studies, and ethics.

Students who pursue the Global Public Health minor will become more informed and engaged citizens and will enhance their major field of study by preparing for a broad range of professions and graduate programs where they can promote global, local, and tribal public-health knowledge, research, and practice. A GPH minor opens transnational career pathways in well-funded global health projects for graduates who have expertise in business, law, economics, community health, social work, pharmacy, nursing, environmental sciences, and the natural sciences. Some graduates will advocate for the health-care needs of distant disadvantaged populations through service in the Peace Corps, non-governmental organizations (NGOs), public-health departments, disease-control centers, foundations, and international organizations. Others will utilize their awareness of global health issues to inform careers in research, health education and management, international economics, medicine, international business, immigrant health, philanthropy, diplomacy, public policy, and international public service.

Requirements for a Minor

The GPH minor requires completion of 21 credits, at least 9 of which must be at the upper-division (300+) level. Students must complete one required social-science course (PSCI 227, Introduction to Global Health Issues) and one required science course (BIOM 227, Epidemiology of Vector-Borne and Parasitic Diseases). Students must complete a minimum 9 credits or 3 additional **“core”** courses from the following list of 18 courses, some of which are offered biannually:

ANTY 349	COMM 425	HS 430	PSCI 463
ANTY 426	ECNS 310	PHAR 320(2 cr)	PUBH 102 on-line
BIOM 400	HHP 330	plus PHAR 395(1 cr)	PHAR 471 on-line
BIOM 427/BIOM 428	HHP 488	PHIL 321	SW 465
		PSCI 431	SOCI 355

Students also must complete a minimum of 6 credits or 2 additional **“content”** courses from the following list:

ANTY 227	BIOL 130N	HHP 415	SW 300
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ANTY 333	BIOH 112	NASX 303	SW 310
ANTY 391	BIOH 113	NASX 304	SW 323
ANTY 402	BIOH 462	NASX 388	SW 324
ANTY 418	BIOM 250N	NUTR 221N	SW 410E
ANTY 422	BIOM 402/MICB 412	PSCI 324	SW 455S
ANTY 431	BIOM 435	PSCI 326	SW 475
ANTY 435	COMM 251X	PSCI 348	SOCI 332
ANTY 491	COMM 451S	PSCI 431	SOCI 371
	COMM 485	PSYC 362	SOCI 443
	ECNS 217X	PUBH 4xx/595	WGS 263S

Students must take all core courses from The University of Montana's curriculum, but can receive content credit for relevant practicum and internships experience and for relevant courses taken at other universities if approved by the program director.

Interested students need to complete the "add a minor" section on the "change of major" form and secure the signature of the program director. This form can be obtained from the program director or the Registrar's office. One semester prior to graduation, the program director must approve and sign the student's graduation plan. Students are asked to complete a written exit interview for the purpose of program assessment.

Faculty

Willard Granath, Ph.D.,

Tom Schwan, Ph.D.

Kimber Haddix McKay, Ph.D.

Gilbert Quintero, Ph.D.

Ralph C. Judd, Ph.D.

Joel Iverson, Ph.D.

Ranjan Shrestha, Ph.D.

K. Annie Sondag, Ph.D.

Laura Dybdal, Ph.D.

Ann K. Williams, Ph.D.

Annie Belcourt, Ph.D.

Rustem Medora, Ph.D.

Mark J. Hanson, Ph.D.

Peter Koehn, Ph.D.

Craig Molgaard, Ph.D., M.P.H.

Elizabeth Putnam, Ph.D.

Janet Finn, Ph.D.

Teresa Sobieszcyck, Ph.D.

Department of History

- Special Degree Requirements
- Suggested Course of Study
- Courses
- Faculty

John Eglin, Chair

For the student in search of a broad education rather than in training for a particular occupation, the History Department offers an exciting program of instruction. It is designed to provide a knowledge and understanding of the background and ramifications of present local, national, and world affairs. The program emphasizes understanding rather than the memorization of names and dates. Students are taught how to read critically, analyze thoughtfully, conduct research carefully, and write intelligently.

Toward this end, the department offers a wide variety of courses ranging in time, location, and subject. For those students interested in local history there are courses on Montana, the West and unique aspects of the frontier. Other classes stress the nature of early American society, the American Revolution, family and gender in America, the Civil War, and diplomacy in the Cold War. Still others emphasize European social, cultural, and intellectual history, European exploration, the French Revolution, Islamic civilization, Latin American history, Asian history, and Russian history. Topical courses concentrate upon documentary analysis, diplomacy, war and peace, terrorism, and environmental history.

The History Department helps to prepare men and women for many different kinds of occupations. Graduates are employed in federal, state or local government positions ranging from domestic to foreign service, from senators to research analysts. Many teach history in Montana or in other states while others pursue their educations at advanced graduate schools earning master or doctoral degrees. Several have been awarded Rhodes or Marshall Scholarships.

Lawyers, journalists and businessmen also are trained by the department; many combine history with political science, journalism, or business. History provides not only a basis for the pursuit of their chosen profession but also furnishes knowledge and perspective for intelligent leadership of citizens in community affairs.

The department offers the Bachelor of Arts, Master of Arts, and the Doctor of Philosophy degrees.

Special Degree Requirements

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

Requirements for a History Major

Students selecting a major in history must complete the following requirements:

I. Courses and credits

A. A minimum of 40 credits in history, maximum of 60. Of the 40-credit total, 9 credits must be in European (EU) history, 9 in American (AM) history, and 9 in world (WRLD) history (Asian, Islamic, African, or Latin American, or international). History majors must complete at least 21 upper-division credits.

B. All history majors must take at least 2 or the following 8 courses: HSTR 101H, 102H, 103H, 104H, (HIST 104, 105, 107, 108), HSTA 101H, 102H, 103H, 104H (HIST 151-154).

- AP Policy: Those majors scoring a "5" on either the American history or European history AP exam are excused from the above requirement. Nevertheless, the department urges all history majors to gain a solid foundation for upper-division coursework by taking some or all of the above "survey" courses.

Note: Students scoring "5" on the American history and/or European history AP exams earn credit toward graduation but do not earn credit toward the history major.

C. History majors must complete HSTR 200 Introduction to Historical Methods. Students are advised to complete this course within two semesters of declaring the history major.

D. History majors must complete a 400-level approved history Upper-Division Writing (UDW) course. Speak to your advisor for a list of approved History UDW courses.

II. Languages

The Department requires competency in English and a proficiency in one foreign language. These requirements include:

- A. WRIT 101 (ENEX 101) or its equivalent.
- B. Foreign language requirements may be satisfied by completing anyone of the following options:
 1. The 101-102 active skills sequence in any foreign language.
 2. Any single course at or above the 102 or 112 level in any foreign language.
 3. An equivalency test for (3) offered by the Department of Modern and Classical Languages and Literatures.

The Department of History does not allow credit for foreign languages taken in high school but students with high school backgrounds in a foreign language may wish to pursue options (2) or (3) above.

Requirements for a History Minor

Students selecting a minor in history must complete the following requirements:

1. A minimum of 20 credits in history of which 6 credits must be in American (AM) history, 6 must be in European (EU) history, and 6 in world (WRLD) history (Asian, Islamic, African, Latin American or international). History minors must complete at least 9 upper-division credits.
2. Two of the following eight courses: HSTR 101H, 102H, 103H, 104H (HIST 104, 105, 107, 108), HSTA 101H, 102H, 103H, 104H, (HIST 151-154).

AP Policy: Those majors scoring a "5" on either the American history or European history AP exam are excused from the above requirement. Nevertheless, the department urges all history majors to gain a solid foundation for upper-division coursework by taking some or all of the above "survey" courses. Note: Students scoring "5" on the American history and/or European history AP exams earn credit toward graduation but do not earn credit toward the history major.

History Teaching Major

Students may earn a teaching major in history by completing the requirements for the BA in history, to include the following: HSTA 101 or 102; HSTR 101 or 102; HSTR 200; HSTA 255; 9 credits in world history; 6 upper-division credits in American history; 6 upper-division credits in European history; 6 additional credits upper-division history electives; one HSTA/HSTR 400-level approved writing course; and EDU 497 (C&I 428). All requirements for the history major apply. Students with a teaching major in history must also complete a teaching major or minor in a second field. For the history teaching major, students must be formally admitted to the Teacher Education Program and complete all of the professional education licensure requirements. Students may also earn a teaching minor in history. See the Department of Curriculum & Instruction for more information.

History/Political Science Combined Major

This major is intended solely for students who want to be licensed to teach history, government, and one additional social science at the middle and high school levels. Requirements for the combined history/political science major are as follows: **in history**, a minimum of 31 credits, including: HSTR 101 or 102, HSTA 101 and 102, HSTR 200, HSTA 255, one elective course in world history, three upper-division elective courses to include at least one American and one European course, and one HSTA/HSTR 400-level approved writing course; **in political science**, a minimum of 30 credits, including: PSCI 210, 220, 230, 250, three upper-division elective courses in American government or public law, and three upper-division elective

courses in comparative or international relations; **in one additional social science**, a minimum of 9 elective credits in economics or geography or psychology or sociology; and EDU 497 (C&I 428). Students must be formally admitted to the Teacher Education Program and complete all of the professional education licensure requirements. Students are eligible for a teaching license in social studies broadfield. See the Department of Curriculum & Instruction for more information.

Suggested Course of Study for History Majors

	First Year	A	S
HSTR 101H, 102H (HIST 104-105) Western Civilization I & II or HSTA 101H, 102H American History I & II (HIST 151-152)	4	4	
HSTR 200 Introduction to Historical Methods	1	-	
WRIT 101 (ENEX 101) Composition	3	-	
Foreign language	5	5	
Electives and General Education	3	6	
		16	15
	Second Year	A	S
HSTR 240 (HIST 201) East Asia, HSTA 255 (HIST 269) Montana, HSTR 262, 264 Islamic, or HSTR 230H, 231H Latin America	6	6	
Electives and General Education	9	9	
		15	15
	Third Year	A	S
400-level approved history upper-division writing course.		(3)	(3)
HSTA OR HSTR upper division history courses		3-6	3-6
Electives and General Education	9	9	
		15	15
	Fourth Year	A	S
HSTA OR HSTR upper division history courses		6	3
Electives, General Education, Broadfield Social Sciences and C&I courses (if applicable)	9	12	
		15	15

Courses

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

United States History (HSTA)

U 101H (HIST 151H) American History I 4 cr. (AM) Offered autumn. A comprehensive introductory history of Colonial, Revolutionary and 19th century America, to 1877. Lecture-discussion. Credit not allowed for both 101H and 103H.

U 102H (HIST 152H) American History II 4 cr. (AM) Offered spring. A comprehensive introductory history of the U.S. since 1877. Lecture-discussion. Credit not allowed for both 102H and 104H.

U 103H (HIST 154H) Honors American History I 4 cr. (AM) Offered autumn. Enrollment by consent of instructor. A comprehensive introductory history of Colonial, Revolutionary, and 19th century America, to 1877. Lecture-honors discussion. Credit not allowed for both 103H and 101H.

U 104H (HIST 155H) Honors American History II 4 cr. (AM) Offered spring. Enrollment by consent of instructor. A comprehensive introductory history of the U. S. since 1877. Lecture-honors discussion. Credit not allowed for both 104H and 102H.

U 141H (HIST 161) Introduction to African American Studies 3 cr. (AM) Same as AAS 141H. This course introduces students to the primary questions, themes, and approaches to African American Studies. In addition to examining key historical periods such as Reconstruction, the Harlem Renaissance, and the Civil Rights era, students will encounter Hip-Hop, African-American film, African-American religion, and contemporary identity politics. This course concludes by discussing the reasons for and new directions in African American studies, including diasporic studies, Pan-Africanism, and post colonial studies.

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

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

U 225 (HIST 352) The American Revolution, 1763-1801 3 cr. (AM) Offered spring. Dissent within the revolutionary movement; the different revolutionary traditions.

U 255 (HIST 269) Montana 3 cr. (AM) Offered autumn. An introductory and interpretive history from Lewis and Clark to 2000.

U 262 (HIST 262) Abolitionism 3 cr. (AM) Same as AAS 262. Offered spring. Interdisciplinary, historical perspective on early 19th century movement to abolish slavery and racial discrimination in the United States.

U 291 (HIST 295) Special Topics Variable cr. (R-12) (AM) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

Although the department has no official prerequisites for 300-level courses, they generally rest on a modicum of survey knowledge or ability.

U 311 (HIST 351) Early America 3 cr. (AM) Offered even-numbered years. Emphasis changes from year to year. Can touch upon the political economy of Puritanism, through gender and family to the preconditions for the American Revolution.

U 315 (HIST 353) The Early American Republic, 1787-1848 3 cr. (AM) Offered spring odd-numbered years. Democracy, nationalism and sectionalism, the War of 1812, the second party system, social order and disorder, the capitalist revolution.

U 316 (HIST 355) American Civil War Era 3 cr. (AM) Offered autumn odd-numbered years. Civil War and Reconstruction; the triumph of the industrialist and capitalist ethic.

U 320 (HIST 356) The Birth of Modern America, 1877-1919 3 cr. (AM) Offered autumn odd-numbered years. The history of the U.S. from 1877 to 1920 is largely the story of Americans responding to profound social, cultural and economic change. In an effort to bring order to their changing world, Americans created new institutions, retooled their ideologies, and improved the nation's infrastructure. The order they created is, in modified form, still with us today. Students will explore the myriad changes that transformed the United States during this period and study the social, political, and cultural struggles that shaped the emergence of Modern America.

U 321 (HIST 357) America in Crisis, 1920 to 1952 3 cr. (AM) Offered autumn. This era in U.S. history was marked by a series of crises: the contested transition to modernity during the 1920s, the Great Depression, and World War II and its aftermath. This course will explore how Americans responded to these crises, why they responded to them the way they did, and how their responses altered the society in which they lived.

U 322 (HIST 358) America in Our Time: The United States, 1952 to the Present 3 cr. (AM) Offered spring. The Cold War and its consequences, the civil rights revolution, affluence and anxiety, counter-culture, political radicalism, feminism, the Nixon years, Watergate and after.

U 323 The U.S. in the 1950's 3 cr. (AM) Offered alternate years, Examines the political, social, cultural, intellectual developments of America in the 1950s. Particular emphasis is placed on cultural history.

U 324 The U.S. in the 1960's 3 cr. (AM) Offered alternate years, Examines the political, social, cultural, intellectual developments of America in the 1960s. Topics include the Great Society, political radicalism, the counter culture, black radicalism, and Vietnam.

U 333 (HIST 368) American Military History 3 cr. (R-6) (AM) Offered spring. The French and Indian Wars to Vietnam and beyond; chronological and topical accounts.

U 335 Movie America: Modern U.S. History through Film 3 cr. (AM) Offered intermittently. This course examines major topics and themes in United States history from the early twentieth century to the present using movies as primary sources.

U 342H (HIST 378H) African American History to 1865 3 cr. (AM) Offered intermittently. Same as AAS 378. Survey of the African American experience from the African background to the end of the Civil War. Focus on Black American quest for the American Dream, and how Blacks attempted to deal with the challenges of enslavement and racism.

U 343H (HIST 379H) African American History Since 1865 3 cr. (AM) Offered intermittently. Same as AAS 343H. Study of the African American experience since the Civil War. Change and continuity in the African American experience, the fight against Jim Crow, the struggle for civil rights, and post-civil rights economic, political, social and cultural developments and challenges.

U 344 (HIST 362) Afro-American Struggle for Equality 3 cr. (AM) Offered intermittently. A survey of the various efforts by African Americans to achieve racial equality in the United States from the late 19th century through the 1960s.

U 347 African American Religious Experience: Voodoo, Muslim, Church: Black Religion 3 cr. (AM) Spring, odd years. The African American religious experience encompasses Islam, Christianity, Santeria, voodoo, and many others. In this course, students will examine the history of religious expression within the African-American community from the colonial era through the twentieth century. Central to the course question, "How did religion shape the experience of the African-American community?" Students will also examine the ways in which religious practice influenced social, political, and cultural changes in American history. Same as AAS 347.

U 354X Indians of Montana Since the Reservation Era 3 cr. (AM) Offered autumn odd-numbered years. Same as ANTH 324X and NAS 324X. Examination of the history of Montana Indians since the establishment of the reservations, contemporary conditions, and issues among both reservation and non-reservation Indian communities in the state. Special attention given to social and economic conditions, treaty rights, tribal sovereignty, and legal issues.

U 358 (HIST 369) Images of the American West 3 cr. (AM) Offered even-numbered years. The roles that artists, artistic works and illustrations, and symbolic images have played in the history of the American West.

U 361 The American South: From Slavery to Civil Rights 3 cr. (AM) Offered intermittently. Social history of the American South with particular attention to race, class, and gender.

U 370H (HIST 370H) Women in America: From the Colonial Era through the Civil War 3 cr. Offered autumn. Interpretive overview of major themes and events in U.S. women's history to 1865. Same as WGS 370H.

U 371H (HIST 371H) Women in America: From the Civil War to the Present 3 cr. Offered spring. Interpretive overview of major themes and events in U.S. women's history from 1865 to the present. Same as WGS 371.

U 375 U. S. Immigration and Ethnicity 3 cr. (AM) Discussion-based course on immigration, assimilation, and social diversity in U.S. history. Students will study the waves of immigration that have peopled America from colonial times to the present, the shifting intellectual and policy responses to immigration, the social histories of different immigrant and ethnic/racial groups, and contemporary debates about multiculturalism.

U 379 (HIST 377) American Constitutional History Since 1864 3 cr. (AM) Offered intermittently. The development of the American Constitution from the Civil War to the present.

U 380 (HIST 376) Problems in American Constitutional History 3 cr. (AM) Offered intermittently. An examination of major issues in the American constitutional past. Topics include the creation of the U.S. Constitution and the problem of "original intent," courts and judicial review, slavery and anti-slavery, the bill of rights, industrial capitalism and the welfare state, and majority rule and minority rights in American democracy.

U 382 (HIST 363H) History of American Law 3 cr. (AM) Offered intermittently. Issues in the social history of law from the colonial period to the present.

U 385 (HIST 367H) Families and Children in America 3 cr. (AM) Offered intermittently. Historical overview of families and children in the United States from the colonial era to the present. Topics include changing patterns of family life, the evolution of attitudes toward children and youth, the relationship between the American family and the nation-state, and debates over

"family values" from the nation's founding to the present.

U 391 (HIST 395) Special Topics Variable cr. (R-12) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

Although the department has no official prerequisites for 400-level courses, they may require appropriate prior study. Interested students should inquire of the History Department before registering.

U 415 (HIST 373) The Black Radical Tradition 3 cr. (AM) Offered autumn, odd years. From slave revolts through to the Move rebellion in Philadelphia, this course examines how the African-American community has engaged in radical efforts to change the status quo in the name of seeking justice. Formally cross listed with AAS 415. Upper division writing course for the history major.

U 417 (HIST 450) Prayer and Civil Rights 3 cr. (AM) Offered autumn, even years. Same as AAS 417 and RELS 417. This course explores the meaning of public prayer in the Civil Rights Movement. Built around the question, "Does religion help or hinder the pursuit of social change?" this class combines historical and religious studies inquiry to trace changes in civil rights activists' efforts to make use of religion. By focusing on a particular religious practice - in this case prayer - in a specific, but limited period of time, this course challenges students to consider how meaning is formed through historical action and study the social significance of religious practice. This formed through historical action and study the social significance of religious practice. This course complicates prevailing ideas about the normalcy of African-American religious practitioners' prayer, invites students to examine their assumptions about the nature of prayer, and traces how religion spilled out of sanctuaries into the streets during the civil rights era.

UG 418 (HIST 470) Women and Slavery 3 cr. (AM) Same as WGS 418. Offered intermittently. Prereq., upper-division standing. Study of the connection between women's status and slavery in antebellum America, looking at slave women, slaveholding women, and antislavery women. Upper division writing course for the history major.

UG 419 (HIST 471) Southern Women in Black and White 3 cr. (AM) Same as WGS 419. Offered intermittently. Examination of the connections between race, class, and gender in the South. Conflict and cooperation among black and white women in politics, reform, and work. Upper division writing course for the history major.

U 420 America Divided, 1848-1865 3 cr. (AM) Offered intermittently. Same as AAS 420. This course explores the period in American history from the close of the Mexican War through the conclusion of the Civil War. Topics include slavery and sectionalism; race and racism; immigration and ethno-religious conflict; military mobilization and wartime dissent; the meaning of freedom in the age of emancipation. This course is intended to hone skills fundamental to the historical discipline: the critical analysis of primary sources; independent primary research and historical writing; engagement with and assessment of historical scholarship; the construction of a historiographical essay. Upper division writing course for the history major.

UG 452X (HIST 465H) History of Indian Affairs to 1865 3 cr. (AM) Offered autumn. Same as NAS 465X. A study of tribal encounters and adjustments to the American nations in the nineteenth century.

UG 453X (HIST 466H) History of Indian Affairs from 1865 3 cr. (AM) Offered spring. Same as NAS 466X. A study of tribal encounters and adjustments to the American nation from 1890.

UG 455 (HIST 467) Indian, Bison and Horse 3 cr. (AM) Offered autumn odd-numbered years. Historical interaction between Native American societies, horses and bison in North America. A writing intensive course. Upper division writing course for the history major.

UG 461 Research in Montana History 3 cr. Offered intermittently. This course is a research and writing seminar in Montana history. Students will learn advanced research methodology in history and will be exposed to a variety of databases and source collections in Montana history that are available locally and online. Students will research and write a primary-source based paper on a topic in Montana history. This course fulfills the upper-division writing requirement for the history department and the university. Consent of instructor required.

UG 462 (HIST 401) Regionalism and the Rocky Mountain West 3 cr. (AM) Offered spring odd-numbered years. Same as

GEOG 401. Investigation of regionalism as a concept and its future in the Rocky Mountain West. Regionalism as a geographical, economic, political and cultural entity. An intensive writing class.

UG 465X History of Indian Affairs to 1776 3 cr. (AM) Offered autumn. Same as NAS 465X. A study of tribal encounters and adjustments to the American nations in the nineteenth century.

G 501 Readings in Early Am Hist 3 cr. Graduate readings course in U.S. history covering the period from pre-contact to 1877.

G 502 Readings in Modern Am Hist 3 cr. Graduate readings course in U.S. history covering the period from 1877 to the present.

G 550 Early America 3 cr. Intensive reading.

G 551 The Early American Republic: Constitution to Civil War 3 cr. Intensive reading.

G 552 Industrial America, 1863-1932 3 cr. Intensive reading.

G 553 Modern America 3 cr. Intensive reading.

G 560 The American State 3 cr. Intensive reading in the history of American government.

G 562 Problems in African American Religious History 3 cr. Spring, even years. Same as AAS 562. This course explores the question, "How does one study African-American history?" through the lens of African-American religious practice.

G 564 U.S. Environmental History 3 cr. Intensive reading.

G 566 The American West 3 cr. Intensive reading.

G 567 Native Americans 3 cr. Intensive reading.

G 570 U.S. Women's History 3 cr. Intensive readings in U.S. women's history.

G 594 Seminar Variable cr. (R-12) Prereq., 27 credits in history. Directed research.

G 595 Special Topics Variable cr. (R-9) Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

G 596 Independent Study Variable cr. (R-12)

G 597 Research in History Variable cr. (R-9)

G 598 Internship Variable cr. (R-8) Prereq., consent of department and Internship Services office. Practical application of classroom learning in off-campus placements.

G 599 Professional Paper Variable cr. (R-6)

G 699 Thesis/Dissertation Variable cr. (R-6)

World History (HSTR)

U 101H (HIST 104H) Western Civilization I 4 cr. (EU) Offered autumn. A comprehensive, introductory history of western civilization from classical antiquity to 1648. Lecture-discussion. Credit not allowed for both 101H and 103H.

U 102H (HIST 105H) Western Civilization II 4 cr. (EU) Offered spring. A comprehensive, introductory history of western civilization from 1648 to the present. Lecture-discussion. Credit not allowed for both 102H and 104H.

U 103H (HIST 107H) Honors Western Civilization I 4 cr. (EU) Offered autumn. Limited enrollment by consent of instr. only. A comprehensive, introductory history of western civilization from classical antiquity to 1648. Lecture-honors discussion. Credit

not allowed for both 103H and 101H.

U 104H (HIST 108H) Honors Western Civilization II 4 cr. (EU) Offered spring. Limited enrollment by consent of instr. only. A comprehensive introductory history of western civilization from 1648 to the present. Lecture-honors discussion. Credit not allowed for both 104H and 102H.

U 146H (HIST 106) The Silk Road 3 cr. (WRLD) Offered autumn and spring. Same as AS and ANTH 106H. Introduction to the study of the human communities, cultures, and economies in Central and Southwest Asia along the ancient four thousand mile-long Silk Road.

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

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

U 200 Introduction to Historical Methods 1 cr. Offered autumn and spring. Enrollment limited to history majors or by consent of the instructor. This course introduces students to the practice of history and prepares them for upper-division courses in the field. It is required for recently declared history majors and minors. Students will learn to critically read secondary sources, research in primary sources, analyze documents, and write clear and convincing historical essays. Students should take this course before taking upper-division history courses.

U 230H (HIST 286H) Colonial Latin America 3 cr. (WRLD) Offered autumn. Latin America from the conquest to wars for independence. Focus on social relations, imperial and local politics, hegemony, resistance, and change.

U 231H (HIST 287H) Modern Latin America 3 cr. (WRLD) Offered spring. Latin American history from wars of independence to the present. Focus on social relations, development models, politics, and popular movements.

U 240 (HIST 201H) East Asian Civilizations 3 cr. (WRLD) Offered autumn. Same as AS 201. An interdisciplinary, pluralist, and exploratory introduction to civilizations of East Asia. Primary focus on China, Japan, and Korea, the relations among them and their patterns of interaction with the outside world in pre-modern and modern periods.

U 241 (HIST 214S) Central Asia: Peoples and Environments 3 cr. (WRLD) Offered autumn. Same as AS, ANTY 241 (ANTH 214), LS 214S. Introduction to Central Asia's history, culture and ways of thinking. Focus on the political and social organization of Central Asia and cultural changes as expressed in art and interactions with China, India and the Middle East.

U 242 (HIST 240H) History and Philosophy of Science 3 cr. (EU) Offered intermittently. Same as PHL 241H (PHIL 240). The epistemological and metaphysical developments of natural philosophy or science. The origins of science in ancient Greece and its subsequent development during the scientific revolution. Developments in biology, especially Darwinism and genetics, as well as developments in physics.

U 250 (HIST 249) The Irish and Irish-Americans 3 cr. (EU) Offered autumn odd-numbered years. Ireland, the Irish people, and the Irish Diaspora, from first settlement to contemporary troubles.

U 262 (HIST 283H) Islamic Civilization: The Classical Age 3 cr. (WRLD) Offered autumn. Same as ANTY 243 (ANTH 283). A concise history of the Islamic world from the 6th century to the fall of the Abbasid Empire in the 13th century, focusing primarily on the teachings of Islam and the causes for the rapid expansion of the Islamic empire.

U 264 (HIST 284H) Islamic Civilization: The Modern Era 3 cr. (WRLD) Offered spring. Same as ANTY 244 (ANTH 284). History of the Islamic world and particularly the Persian, Arabic, and Turkish speaking lands between 1453 and 1952.

U 272E (HIST 226E) Terrorism: Political Violence in the Modern World 3 cr. (WRLD) Offered autumn. Prereq., lower-division course in Perspective 5 or consent of instr. The rise and spread of terrorism in the modern world, from the French

Revolution to the present.

U 291 (HIST 295) Special Topics Variable cr. (R-12) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

Although the department has no official prerequisites for 300-level courses, they generally rest on a modicum of survey knowledge or ability.

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

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

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

U 306 The Medieval World: The Barbarian West, 400-1200 3 cr. (EU) Offered autumn. The collapse of Roman authority, the establishment of the Germanic kingdoms, Christianity and the Roman church.

U 307 The Medieval World: The High Middle Ages, 1150-1450 3 cr. (EU) Offered spring. The Christian world in the West to the decline of the papacy, a hundred years of war, the Black Death.

U 312 The Age of Absolutism, 1648-1789 3 cr. (EU) Offered intermittently. The political, economic, intellectual, and social development of Europe 1648-1789.

U 315 (HIST 310H) The Reformation 3 cr. (EU) Offered intermittently. The Reformation and its impact on European society, politics, economic theory and religious thought from 1500 to 1600; the Counter-Reformation.

U 317 (HIST 311H) Europe in Renaissance and Reform, 1348-1648 3 cr. (EU) Offered intermittently. The political, economic, intellectual and social development of Europe from 1348 to 1648.

U 320 (HIST 338H) European Social and Intellectual History: 1450-1789 3 cr. (EU) Offered autumn. The influence of the Renaissance, Baroque and Classical Ages, and the Enlightenment on early modern history.

U 323 (HIST 339H) European Social and Intellectual History: The 19th Century 3 cr. (EU) Offered autumn. Romanticism, Realism, and the Avant-Garde against the historical background of the Industrial Revolution and urbanization.

U 325 (HIST 340H) European Social and Intellectual History: The 20th Century 3 cr. (EU) Offered spring. The triumph of the Avant-Garde and the decline of traditional culture: 1914-1945.

U 326 (HIST 319H) Contemporary Europe 3 cr. (EU) Offered autumn odd-numbered years. European politics, culture, and society since 1945.

U 334 (HIST 385) Latin America: Reform and Revolution 3cr. (WRLD) Offered intermittently. Different ideologies and projects in Latin America aimed at gradual or radical transformation of political systems and/or socio-economic relations. Case studies range from the Haitian Revolution to the Bolivarian vision of Hugo Chavez.

U 335 Latin American Workers and Labor History 3 cr. (WRLD) Offered intermittently. Modes of production and the experiences and agency of diverse working people in Latin America. Influence of race, ethnicity, gender, religion, and generation on working class identity and movements. Labor organizations and politics in historic context.

U 343 (HIST 381H) Modern Japan 3 cr. (WRLD) Offered spring. Japanese culture, politics, and economics since 1800: the Tokugawa period, the Meiji Restoration, militarization and the Great Pacific War, the American occupation, Japan as a model

of modernization.

U 345 (HIST 380H) Modern China 3 cr. (WRLD) Offered autumn. China since 180, emphasizing internal weaknesses of the Manchu dynasty, confrontation with the west, and the emergence of Nationalist and Communist regimes.

U 348 (HIST 341) Britain from Reformation to Revolution, 1485-1688 3 cr. (EU) Offered autumn. Social, political, religious, and intellectual history of the British peoples during the tumultuous period of reformation, exploration, constitutional crisis, and civil war.

U 349 (HIST 342) Britain from Revolution to Reform, 1688-1832 3 cr. (EU) Offered spring. The social, political, cultural, and intellectual consequences of British expansion, financial and industrial revolutions, and revolutionary movements.

U 350 (HIST 343) Modern Britain 3 cr. (EU) Offered autumn odd-numbered years. Social, political, intellectual and cultural history of the United Kingdom from an age of industry, empire, and political reform to one of economic decline and international retreat.

U 352 (HIST 314) France in Revolution, 1789-1848 3 cr. (EU) Offered autumn. Political, economic, and social upheaval and development.

U 353 (HIST 315) Modern France, 1848-Present 3 cr. (EU) Offered intermittently. The political, economic and social development.

U 354 (HIST 324) Italy: 1300-1800 3 cr. (EU) Offered autumn odd-numbered years. The emergence of the Italian states with an emphasis on cultural achievements in the late Medieval, Renaissance, Baroque, and Neoclassical periods.

U 355 (HIST 325) Italy: 1800-Present 3 cr. (EU) Offered spring even-numbered years. The emergence of a united Italy, the triumph of fascism and contemporary Italian society.

U 357 (HIST 344) Russia to 1881 3 cr. (EU) Offered autumn. Emphasis on the autocratic political tradition, Westernization, and territorial expansion.

U 358 (HIST 345) Russia Since 1881: War, Revolution and Reform 3 cr. (EU) Offered spring. Emphasis on modernization and the revolutionary movement; the Bolshevik Revolution and Stalinist era; the decline of Soviet system.

U 361 (HIST 321) Germany: Augsburg to Bismarck, 1555-1866 3 cr. (EU) Offered intermittently. Political, economic and social development of the states of the Holy Roman Empire from 1555-1866.

U 363 (HIST 348) Eastern Europe 3 cr. (EU) Offered spring. Main currents in the history of Eastern Europe from earliest times to the present. Focus on the lands of Poland, Bohemia, Hungary, and the Balkan region.

U 364 (HIST 364) Environmental History 3cr. (AM) Offered spring odd-numbered years. Prereq., lower-division course in Perspective 5 or consent of instr. A history of the human-nature interaction in the United States.

U 367 (HIST 365) 19th Century American West 3 cr. (AM) Offered autumn. Euro-American movement and conflict in the nineteenth century trans-Mississippi west.

U 368 (HIST 387) Iran Between Two Revolutions 3 cr. (WRLD) Offered spring. Same as ANTH 387. The socioeconomic, political, and cultural causes which resulted in the transformation of the Iranian society from a traditional Islamic entity to a modern secular state and the factors which led to the downfall of the secular state and the establishment of an Islamic republic.

U 369 (HIST 366) 20th Century American West 3 cr. (AM) Offered spring. The contemporary trans-Mississippi West.

U 374H/E (HIST 334E) War, Peace, and Society 3 cr. (WRLD) Offered intermittently. A thematic and interdisciplinary approach to warfare and peace, sociopolitical structures and military organization, power among states, technological change, the role of the individual in organized violence, and moral views of war and peace.

U 377H (HIST 330H) European International Relations: Origins of the State System to 1870 3 cr. (EU) Offered intermittently. The nature, evolution, and functions of the European diplomatic system from the Ancient World to 1870.

U 378 (HIST 332H) The Global Diplomacy of the Cold War 3 cr. (WRLD) Offered intermittently. Deals with the emergence of the Cold War, confrontations like the Cuban Missile Crisis, wars like those in Korea and Vietnam, strategies of deterrence, the rise of Gorbachev, the collapse of the Iron Curtain and the Cold War itself, and the long term implications of the Cold War on contemporary international relations.

U 380H (HIST 331H) Foreign Relations of the Great Powers, 1870-Present 3 cr. (WRLD) Offered intermittently. Begins with a discussion of the classical system of diplomacy and then moves into the causes and results of the First World War, the rise of Hitler and the Second World War, America's emergence as a superpower, the Cold War, the influence of Asia, the implications of the 9/11 attack and terrorism, and the continuing search for peace and stability in a world of conflict.

U 382 (HIST 350) Historical Backgrounds to Current Crises 3 cr. (R-6) (WRLD) Offered intermittently. Social, intellectual, political, and constitutional backgrounds of unresolved crises in Europe, Asia, Middle East, and America.

U 384E (HIST 335E) Human Rights 3 cr. (WRLD) Offered intermittently. A treatment of the powerful global influence of visions of human rights upon the historical and contemporary world in which movements such as abolitionism, women's rights, humanitarian law, racial equality, decolonization and democratization, and the impact of the Universal Declaration of Human Rights.

U 386 Nationalism in Modern Middle East 3 cr. (WRLD) Offered autumn. Same as ANTH 386. The several intellectual traditions and philosophies some ephemeral and visionary, most eclectic and confused, and virtually all conflicting that are usually believed to underlie the varying concept of Iranian and Arab nationalism in the 20th century.

U 388 Africa to 1880 3 cr. (WRLD) Offered intermittently. Same as AAS 388. History of Africa from the earliest of times. Evolution of African societies and states, social, economic, political, and cultural developments; the dynamics, nature and consequences of Africa's interaction with Europe up to 1880.

U 391 (HIST 395) Special Topics Variable cr. (R-12) Offered intermittently. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

UG 394 Seminar Variable cr. (R-6) Offered intermittently.

U 396 Independent Study Variable cr. (R-12) Offered intermittently.

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

Although the department has no official prerequisites for 400-level courses, they may require appropriate prior study. Interested students should inquire of the History Department before registering.

UG 400 Historical Research Seminar 3 cr. Offered autumn and spring. Topics vary according to the instructor. Enrollment for history majors and minors, graduate students in history, or by consent of the instructor. Undergraduates enrolling in this course must have completed HSTR 200: Introduction to Historical Methods. The goal of this course is for students to propose and execute a substantial research project. Upper division writing course for the history major.

UG 401 (HIST 400) The Great Historians 3 cr. (EU) Offered intermittently. The history and philosophy of history.

UG 409 History of Southern Africa 3 cr. (WRLD) Offered intermittently. Same as AAS 409. Historical survey of developments in southern Africa from the earliest of times to the present. Focus on the evolution and growth of societies and states; economic, social and political developments; external interventions and impacts on race relations.

UG 411 (HIST 410) Personalities in History 3 cr. (R-6) (WRLD) Offered intermittently. Influential individuals in European,

American, and Asian history.

UG 418 Research Seminar: Britain 1500-1800 3 cr. Offered spring alternate years. Prereq., consent of instr. HSTR 348 or 349 (HIST 341 or 342) recommended. Students will discuss specific issues in the historiography of the early modern period in British history (c1500-1800) and produce research papers grounded in primary sources.

UG 435 (HIST 485) Latin America: Human Rights and the Politics of Memory 3 cr. (WRLD) Offered intermittently. The legacy of state violence and ongoing struggles for truth and justice in select Latin American case studies. Different uses of memory and narration in bearing witness to social and political conflict and human rights violations.

UG 437 U.S. Latin American Relations 3 cr. Research and writing seminar on U.S.-Latin American relations from the late 18th century through the 20th century. Upper division writing course for the history major.

UG 441 (HIST 462) Central Asia Seminar 3 cr. (WRLD) Offered spring. Same as ANTH 460. Advanced analysis of the historical and contemporary issues involving the human communities, cultures, and economies in Central and Southwest Asia.

UG 442 (HIST 402) Cities and Landscapes of Central Asia 3 cr. (WRLD) Offered autumn. Same as AS 402 and ANTH 462. Analysis of the main centers of civilization and culture, rich sites and monuments of Central Asia and Southwest Asia since ancient times.

U 448 Tradition & Reform in China 3cr. (WRLD) Taught annually. Prereq., junior standing or consent of instructor. A history of key reform movements from the mid-19th century (when China was rocked by rebellion and the entry of the West) to the Maoist period.

U 449 Revolution & Reform in China 3cr. (WRLD) Offered autumn. A history of the rise and fall of the Maoist regime and the complicated impact of the epochal post Mao reform movement.

UG 455 An Introduction to Public History 3 cr. (AM) Offered spring. Review of selected areas in which public historians work. Examination of how the public historian's role may differ from the academic historian. Focus on specific approaches, issues, and problems in a variety of areas of public history.

UG 457 (HIST 445) The World of Anna Karenina 3 cr. (EU) Offered fall. Tolstoy's classic novel as a point of entry into a multifaceted exploration of imperial Russian culture and society. Topics include family life, social relations, modernization, politics, religion and spirituality, gender and sexuality.

UG 458 (HIST 446) The Russian Revolution, 1900-1930 3 cr. (EU) Offered spring. The causes, course, character, and consequences of the Bolshevik Revolution.

UG 459 (HIST 457) Artistic Traditions of Central and Southwest Asia 3 cr. (WRLD) Offered autumn and spring. Same as AS 457 and ANTH 461. Analysis of the study of human artistic creativity and scientific innovations of various cultures in Central and Southwest Asia since ancient times.

UG 470 (HIST 437) Dynamics of Diplomacy 3 cr. (WRLD) Offered intermittently. An interdisciplinary, global, and thematic approach to major issues in foreign affairs brought about by world wars, diplomatic expansion, the collapse of cultural homogeneity, technological developments, and the rise of public opinion.

UG 472E (HIST 460E) Problems of Peace and National Security 3 cr. (WRLD) Offered intermittently. Prereq., lower-division course in Perspective 5 or consent of instr. Contemporary and historical problems of civilian policy and military strategy, power and technology, intelligence operations in democratic societies, human rights and security issues, conscription, and ethics in statecraft.

U 493 Omnibus Variable cr. (R-9) Offered intermittently. University omnibus option for independent work. See index.

UG 494 Seminar Variable cr. (R-6) Offered intermittently. Prereq., consent of instr.

UG 495 Special Topics Variable cr. (R-12) Offered intermittently. Experimental offerings of visiting professors, experimental

offerings of new courses, or one-time offerings of current topics.

UG 496 Independent Study Variable cr. (R-12) Offered intermittently. Prereq., consent of instr.

G 500 Teaching Discussion Sections in History 1 cr. (R-4) Supervised teaching and reading keyed to survey courses in American history and western civilization.

G 511 Early Modern Europe 3 cr. Offered alternate years. Intensive reading in 16th, 17th, and 18th century European history.

G 512 Age of Absolutism and Revolution, 1648-1789 3 cr. Offered autumn even numbered years. Intensive reading in 17th and 18th century European history.

G 514 Modern France 3 cr. Offered alternate years. Intensive reading, from the French Revolution to the present.

G 516 Modern Europe 3 cr. Offered alternate years. Intensive reading in 19th and 20th century European history.

G 531 International Relations 3 cr. Offered alternate years. Intensive reading in the history of international relations and diplomacy during the late 19th and 20th centuries.

G 540 European Cultural and Intellectual History 3 cr. Intensive reading.

G 541 Early Modern Britain 3 cr. Offered intermittently. Intensive reading in British history from 1500 to 1800.

G 544 Modern Russia 3 cr. Offered alternate years. Intensive reading in 19th and 20th century Russia.

G 585 Latin America 3 cr. Offered alternate years. Intensive reading.

G 586 Modern Islamic Politics 3 cr. Offered alternate years. Intensive reading.

G 594 Seminar Variable cr. (R-12) Prereq., 27 credits in history. Directed research.

G 595 Special Topics Variable cr. (R-9) Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

G 596 Independent Study Variable cr. (R-12)

G 597 Research in History Variable cr. (R-9)

G 598 Internship Variable cr. (R-8) Prereq., consent of department and Internship Services office. Practical application of classroom learning in off-campus placements.

G 599 Professional Paper Variable cr. (R-6)

G 699 Thesis/Dissertation Variable cr. (R-6)

Faculty

Professors

Richard R. Drake, Ph.D., University of California, Los Angeles, 1976

John A. Eglin, Ph.D., Yale University, 1996 (Chair)

Dan Flores, Ph.D., Texas A & M University, 1978 (A.B. Hammond Professor of Western History)

Linda S. Frey, Ph.D., Ohio State University, 1971

Anya Jabour, Ph.D., Rice University, 1995

Michael S. Mayer, Ph.D., Princeton University, 1984

Associate Professor

Robert H. Greene, Ph.D., University of Michigan, 2004

Jody Pavilack, Ph.D., Duke University, 2003

Kyle G. Volk, Ph.D., University of Chicago, 2008

Jeff Wiltse, Ph.D., Brandeis University, 2002

Assistant Professors

Christopher L. Pastore, Ph.D., University of New Hampshire, 2011

Tobin Miller Shearer, Ph.D., Northwestern University, 2008

Emeritus Professors

George M. Dennison, Ph.D., University of Washington, 1968

David M. Emmons, Ph.D., University of Colorado, 1969

William E. Farr, Ph.D., University of Washington, 1971

Harry W. Fritz, Ph.D., Washington University at St. Louis, 1971

Paul Gordon Lauren, Ph.D., Stanford University, 1973 (Regents Professor)

Kenneth A. Lockridge, Ph.D., Princeton University, 1965

Frederick W. Skinner, Ph.D., Princeton University, 1973

Visiting Assistant Professors

Bradley Naranch, Ph.D., Johns Hopkins University, 2007

Serdar Poyraz, Ph.D., Ohio State University, 2010

Human and Family Development

- Requirements for a Minor
- Courses

Paul Silverman (Professor of Psychology), Chair, Human and Family Development**Minor**

The Human and Family Development minor is an interdisciplinary minor concerned with the study of life-span human development and family relations, and the impact of biological, environmental and socio-cultural factors on both. The HFD minor encompasses a broad range of areas: Early Intervention, Gerontology, Early Childhood, Normal Development, Family Development, and Exceptional Development. The minor is designed to supplement the knowledge base of students by providing a human and family development specialty orientation to their fields of major interest. Students with career goals that include communications, psychology, education, social work, sociology, anthropology, pre-medical sciences, nursing, and physical therapy will benefit from the specialty orientation in human and family development. Students with other career goals also will find the program rewarding; a business major interested in family service administration or consumer economics; a radio-television major interested in children's programming; a forestry major interested in recreational management appropriate for a particular population.

Human and family development encompasses a broad range of topics, all of which share the view that human growth is a valid subject of scientific study. Knowledge of the processes and contents of psychological, social and biological growth of the individual separately and within the family context will benefit the quality of life of both the student/investigator and the public.

The purpose of this program is to equip students with a general knowledge of issues relevant to normal and atypical patterns of human and family development and to provide them with some practical skills and insights which will enhance their abilities in a variety of professions which deal with developmental and family issues. The minor has general, early intervention, and gerontology tracks.

The interdisciplinary curriculum reflects four specific goals: (1) to provide students with an extensive knowledge base of theory and research concerning lifespan development and the role of the family in development; (2) to train students to be critical consumers of research and evaluation results in the human and family development areas; (3) to provide students with practical experience in at least one applied service discipline in the human development areas; and (4) to provide students with the opportunity to take topical courses in normal and atypical development of the individual and family.

All students seeking a minor must formally enroll in the minor and select a faculty advisor from the Human and Family Development Committee.

Requirements for a Minor

To earn a minor the student must complete 24 credits, with 11 at the 300 level or above. All students are required to take a 12-credit core curriculum and, with the help of a faculty advisor, to develop a written statement of goals and interests along with a planned curriculum that includes 12 additional credits of electives consistent with the stated goals and interests. At least 6 credits of electives must be outside of the student's major.

Core Curriculum:

- PSYX 230S or 233 (PSYC 240S or 245) (3 cr.)
- HFD 494 Seminar in Human Development (at least 1 cr.)
- HFD 498 Internship (Variable cr.; 2 required)

One of the following:

- HFD 412 Family Development (3 cr.)
- COMM 411 Family Communication (3 cr.)
- SOCI 332 (SOC 300) Sociology of The Family (3 cr.)

Plus one of the following research courses:

- PSYX 120 or 320 (PSYC 120 or 320) Research Methods (3 cr.)
- SOCI 318 (SOC 201) Social Science Methods (4 cr.)
- COMM 460 Communication Research Methods (3 cr.)
- SW 400 Social Work Research (3 cr.)
- C&I 520 Educational Research (3 cr.)

Electives:

The following list of electives is categorized to assist the student wishing to focus on one of these areas. Students may plan curricula which do not correspond to these categories, but should choose among courses from this list. Occasionally "special topics" courses are offered. Students may use these as electives with the consent of their advisors.

Early Intervention

- HFD 411 Infant and Toddler Development and Variability
- HFD 412 Family Development/Families of Young Children with Disabilities
- HFD 413 Assessment and Program Planning
- HFD 414 Community Service Delivery
- HFD 415 Implementation and Program Evaluation
- HFD 416 Data-Based Decision Making
- HFD 498 Internship

Early Childhood