HEBREW • HEBR

General education courses are marked with stars ( ★ ).

1001 Beginning Hebrew (4) ★ Also offered as REL 1001. This course counts toward the fulfillment of a foreign language requirement only when taken under the HEBR rubric. The alphabet, basic grammar, and vocabulary of classical Hebrew; simple prose passages from the Bible.

1002 Intermediate Hebrew (4) ★ Also offered as REL 1002. Prereq.: HEBR/REL 1001 or equivalent. This course will count toward the fulfillment of a foreign language requirement only when taken under the HEBR rubric. Basic grammar and vocabulary of classical Hebrew; simple prose readings from the Bible.

1003 Intermediate Hebrew (4) ★ Also offered as REL 2003. Prereq.: HEBR/REL 1002 or equivalent. This course counts toward the fulfillment of a foreign language requirement only when taken under the HEBR course. Biblical narratives: details of syntax; development of vocabulary.

1004 Intermediate Hebrew (4) ★ Also offered as REL 2004. Prereq.: HEBR/REL 2003 or equivalent. This course counts toward the fulfillment of a foreign language requirement only when taken under the HEBR course. Biblical narratives and poetry: details of syntax; development of vocabulary; textual criticism.

HISTORY • HIST

General education courses are marked with stars ( ★ ).

★ 1001 Western Civilization to 1500 (3) An honors course. HIST 1002, is also available. Credit will not be given for this course and HIST 2054, with special honors emphasis for qualified students. The role of the social sciences in the study of history; course will assist student in the teaching of social studies to small groups in middle and high schools.

★ 1002 HONORS: Western Civilization to 1500 (3) Same as HIST 1001, with special honors emphasis for qualified students. Credit will not be given for this course and HIST 1001. Supervised reading, discussion, research, and writing.

★ 1003 Western Civilization Since 1500 (3) An honors course. HIST 1004, is also available. Credit will not be given for this course and HIST 1004. Development of western civilzation from the Reformation to the present.

★ 1004 HONORS: Western Civilization Since 1500 (3) Same as HIST 1003, with special honors emphasis for qualified students. Credit will not be given for this course and HIST 1003. Supervised reading, discussion, research, and writing.

★ 1005 World History to 1500 (3) Developments and interactions among Asian, African, European, American, and Oceanian cultures in the pre-modern age. HIST 1006, is also available. Credit will not be given for this course and HIST 2055, with special honors emphasis for qualified students. The growth of absolute political, economic, social, and cultural systems, and wars of independence.

★ 1006 HONORS: World History to 1500 (3) Same as HIST 1005, with special honors emphasis for qualified students. Credit will not be given for this course and HIST 1005. Supervised reading and research in an assigned field of historical study.

★ 2001 Colonial Latin America (3) Colonial period emphasizing the European background, explorations, political, economic, and social roots of independence.

★ 2006 Latin America Since Independence (3) Latin American countries in the 19th and 20th centuries; search for political stability, economic and social progress, and international relations.

2095 East Asian Civilization to 1800 (3) Interdisciplinary and cultural background to civilization of East Asia, particularly China and Japan, from antiquity to early contacts with the West.

2096 East Asian Civilization Since 1800 (3) Modern Asian civilization; emphasis on contact with the West, and the rise of nationalism and communism.

2135 Introduction to Russian Culture and Civilization (3) See RUS 2075.

2195 Topics in History (3) May be taken for a max. of 6 hrs. of credit with different topics. Prereq.: HIST 1001. Concurrent enrollment in EDCI 3001. Supervised tutorial experience in local middle or high schools.

2102 History and the Social Sciences I (1) Prereq.: EDCI 2001. Concurrent enrollment in EDCI 3002. Introduction to the role of the social sciences in the study of history; course will assist student in the teaching of social studies to small groups in middle and high schools.

2202 History and the Social Sciences II (1) Prereq.: EDCI 3001 and HIST 1001. Concurrent enrollment in EDCI 3002. The role of the social sciences in the study of history; course will assist student in the teaching of social studies to small groups in middle and high schools.

5020 The Age of Jackson: 1820–1860 (3) Political, economic, cultural, and military developments from the marriage of Ferdinand and Isabella to the present.

5024 The Dutch Republic and Empire: 1500–1800 (3) Political, economic, social, and cultural history of one of the great powers of early modern Europe; emphasis on the Golden Age of Rembrandt and Vermeer.

5025 Germany from the Reformation to Bismarck (3) German political, social, and cultural development from 1500 to 1890; the Thirty Years’ War; the rise of Prussia; the national unification of the 19th century.

5026 20th Century Germany (3) The states that have existed in Germany since 1890; the Wilhelminian Empire; the Weimar Republic; the Third Reich; and the Germany of the Federal Republic.

5028 The First World War (3) The First World War, 1914-1918, including controversies regarding its origin and aftermath.

5029 Eastern Europe: 1700-1914 (3) Emphasis on the rise of nationalism in the 19th century.

5030 Eastern Europe: 1918-Present (3) Emphasis on the independent nation-states after World War I, impact of totalitarianism, and the current liberalization.

5032 The Balkans: 16th-20th Century (3) Events leading up to and including World War I, problems of the inter-war period, World War II, and rise and decline of Communism in Southeastern Europe.

5033 Russia to 1861 (3) Kievan Rus, the Tsardom of Muscovy, and Imperial Russia to the emancipation of the serfs.

5034 Russia Since 1861 (3) Reaction and reform from 1861 to 1905; failure of parliamentary democracy amid war and revolution; Leninism and Stalinism; relaxation of totalitarian rule since Stalin's death.

5039, 40 English Constitutional History (3, 4) Origin and development of English legal institutions; their influence on American legal institutions.


5044 Stuart England (3) Period of transition from kings who would be absolutist, through the crisis of civil wars, to the beginnings of the Jacobean era.

5045 18th Century Britain (3) Political, economic, social, and intellectual history from the accession of George I to the death of George III.

5046 19th Century Britain (3) Emphasis on the acquisition of Empire, emergence of industrial society, and the rise of Victorianism between 1830 and 1890.

5047 20th Century Britain (3) Intellectual, political, social, and economic developments since 1900, including the experience of total war, construction of the welfare state, imperial decline, and the significance of Thatcherism.

5048 Modern Irish History: 1600-Present (3) Development of communities and conflicts in Ireland from the Tudors to the European community; emphasis on cultural, political, and military affairs.

5052 The British Empire and Commonwealth (3) British Empire and development of the British Commonwealth of Nations.

5050 British Colonialism in South Asia (3) Political, economic, and cultural history of the British Empire in South Asia from the founding of the East India Company in 1608 to the end of the British imperial role in 1947.

5051 Colonial India (3) Political, economic, cultural, and military developments in the 13 colonies.

5052 The American Revolution, 1763-1789 (3) Political, intellectual, economic, and military developments in the formation of a permanent American union.

5053 The Age of Jefferson, 1789-1820 (3) Implementation of the Constitution, adoption of the Bill of Rights, formation of a political party system, and economic and social change.

5054 The Age of Jackson: 1820-1860 (3) Examination of democratization, economic transformation, party development, the reform movement, slavery, and the
2011 The Age of Enlightenment (3)

Prereq.: HNRS 1001 and 1003; or 1101 and 1103. Coreq.: Related readings, and examination coordinated with HNRS 2202.

3000 Research Methodologies (3)

Prereq. to introduction to interdisciplinary research methods. Lectures, networking, proposal preparation, data collection, and presentation of findings specific to student’s discipline; interdisciplinary research project. 

3001 European Civilization from 1400 to 1789: The Old Regime (4)

Continuation of HNRS 2002. Interdisciplinary study of western civilization from the Renaissance through the Enlightenment: literature, history, philosophy, religion, government, and fine arts.

3003 Western Civilization from 1789: The Modern World (4)

Continuation of HNRS 2001. Interdisciplinary presentation of development of western civilization from the era of revolution to the present: literature, history, philosophy, religion, government, and fine arts.

3010 Leaders and Scholarship (3)

Analysis of classical and modern foundations and principles of leadership. Practice in scholarship essay writing, interviewing, debate, and critical thinking. Intended for national and international scholarship opportunities.

3030 Humanities Colloquium (3)

May be taken for a max. of 6 hrs. of credit. Selected themes and materials in literature, history, philosophy, religion, and the arts.

3031 American Studies (3)

May be taken for a max. of 6 hrs. of credit when topics vary. Selected topics in American civilization.

3033 Social Science Colloquium (3)

May be taken for a max. of 6 hrs. of credit when topics vary. Topics of significance from the standpoint of various social sciences.

3035 Natural Science Colloquium (3)

Prereq.: completion of one-year course in a physical science and one-year course in biological science, at least one with laboratory; consent of instructor. May be taken for a max. of 6 hrs. of credit when topics vary. Selected topics illustrative of developing concepts of the natural and physical universe and of living organisms.

3100 Internships, Field Work, Off-Campus Programs

May be taken for a max. of 6 sem. hrs. credit. For special learning opportunities.

3991 Thesis (3)

Independent research and writing toward the honors thesis; the thesis itself to be completed in HNRS 3992. 3992 Thesis (3) An essay based on independent reading and research or a report on laboratory or field research.

4813 Interdisciplinary Fluid Dynamics: Physical Concepts (3) See ME 4813.

4823 Interdisciplinary Fluid Dynamics: Computational Methods (3) See ME 4823.

Horticulture • HORT

2001 Organic Gardening (2)

F One hr. lecture; 2 hrs. lab. For non-horticulture majors. Principles and practices of organic vegetable production.

2010 Horticulture Technology (2)

F Prereq.: MATH 1021. Introduction and overview of calculations and measurements used in applied horticulture.

2011 Analysis of Environmental Issues (3)

See EMS 2011. 2020 Installation and Maintenance of Ornamentals in the Landscape (1) 1 hr. lecture; 2 hrs. lab. Introduction to soil analysis and preparation; installation and maintenance of landscape plants including trees, shrubs, perennials, and annuals; irrigation installation and repair.

2022 Installation and Maintenance of Ornamentals in the Landscape II (2) Prereq.: HORT 2020 or consent of instructor. 1 hr. lecture; 2 hrs. lab. Introduction to management of landscape plants; pruning techniques for trees, shrubs, palms, and roses; evaluation of landscape documents, cost estimation and bidding.

2025 Introduction to the Green Industry (2) F Defining the general management structure and use of horticultural concepts specific to the “green agricultural” sector; topics include entrepreneurship, specialized green industry labor; regulatory oversight; applied use of permits, waivers, and variances; cost effect of regulatory compliance; acquired use of patent and proprietary information.

2050 General Horticulture (4) F,S 3 hrs. lecture; 2 hrs. lab. Science and art of modern horticultural plant production, including propagation, pest control, and management; major groups of garden crops including vegetables, fruits and nuts, ornamentals, houseplants, and florist crops; lab includes propagation and culture of garden plants in field and greenhouses.

2061 Plant Propagation (3) S-O Prereq.: HORT 2050. 2 hrs. lecture; 2 hrs. lab. Principles of sexual and asexual propagation; specific methods of plants.

2086 Introduction to Turfgrass Management (3)

S-E Prereq.: BIOI 1002 or 1002; AGRO 2051 or equivalent. 2 hrs. lecture; 2 hrs. lab. Lab offered as AGRO 2086. Turfgrass identification and adaptation; establishment and maintenance of high quality turf areas; turfgrass sodding and their production.

2122 Herbaceous Plant Materials (2)

S-O 1 hr. lecture; 2 hrs. lab. Identification and study of plant materials; propagation protocols, growth characteristics, and ecological characteristics of herbaceous plant materials used in ornamental horticulture and landscaping.

2124 Crop Materials (4)

F,S 2 hrs. lecture; 2 hrs. lab. Identification and study of plant materials; ecological and visual characteristics of plants used in landscape design.

2125 Wood Plant Materials (2)

S-O Prereq.: HORT 2124 or consent of instructor. 1 hr. lecture; 3 hrs. lab. Continuation of HORT 2124. Introduction to the nursery industry including production, availability, and marketing.

2130 Survey of Arboriculture (2) S 1 hr. lecture; 2 hrs. lab. Review of the biology, growth, environment, and management practices for trees in the landscape.

2860 Growth and Development of Agricultural Crops (F-S) Prereq.: CHEM 1002 or 1202 and BIOI 1002 or 1202 or consent of instructor. 3 hrs. lab. Study of the growth and development of horticultural crops, including water relations, respiration, photosynthesis, and growth and development.

3000 Horticultural Internship (3)

May be taken for a max. of 6 sem. hrs. credit. Work experience in horticulture while working on acceptable written reports and a seminar presentation.

3010 Research Problems (3)

Written consent of the instructor. May be taken for a max. of 6 sem. hrs. Independent research under a faculty member culminating in an oral and written research report.

3015 Urban Landscape Management (3) S-O Prereq.: HORT 2050, 2124 or equivalent. This course is part of ACCEPtS. Methods for sustainable management of the landscape through proper installation, management, plant care, pesticide management, employee management and cost accounting.

3040 Landscape Construction (2) S-O 1 hr. lecture; 2 hrs. lab. Survey of construction techniques and materials used in landscape contracting including drainage systems, paving, retaining walls, decking, and fencing.

3503 Sustainable Horticulture (3) S-O Prereq.: HORT 2050 or equivalent. This course is part of ACCEPtS. This course will provide basic knowledge of the principles and practices of sustainable, organic and alternative horticulture management systems. The class will review and evaluate horticulture topics including soil biological processes (compost, humus, and fertility), pest management, alternative farming systems, and organic agriculture.

4010 Tropical/Subtropical Horticulture (3) S-O Prereq.: HORT 2050 or equivalent. Current status of cultivation throughout the world; production practices; postharvest handling; international trade of tropical/subtropical horticultural crops.

4012 Special Topics in Horticulture (1-3) Prereq.: Consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lab/handbook trip may be required. Subject areas not covered in other horticulture courses. 4020 Greenhouse Management and Controlled Environment Agriculture (4) F 3 hrs. lecture; 2 hrs. lab. Prereq.: HORT 2050 or equivalent. This course is part of ACCEPtS. Operation and management of greenhouses and other controlled environments with emphasis on system design and construction, control of light intensity and photoperiod heating and cooling systems, substrates, mineral nutrition, water quality and irrigation systems.

4030 Plantation, Beverage, and Tropical Nut Crops (3) S-O Prereq.: HORT 2050 or equivalent. World situations, production practices, processing, postharvest care, agro-processing, and international trade of rubber, oil palm, cocoa, coconut, olive, coffee, tea, wine grapes, vanilla, and various tropical nut and fruit crops.

4040 International Horticulture (3) S Prereq.: HORT 2050 or equivalent. This course is part of ACCEPtS. This course will provide an overview of the industry worldwide. Export, marketing and international trade issues will be covered in a global horticultural context.

4201 Processing of Fruits and Vegetables (3) Prereq.: FDSC 1049 or HORT 2050 or equivalent. 2 hrs. lecture; 1 hr. lab. Methods of processing horticultural crops; includes canning, freezing, dehydration, and fermentation.

4252 Horticulture Processing Facilities (2) S-O Prereq.: HORT 4093 or FDSC 4093. 2 hrs. lab. Required field trips. Review of criteria for GMP design and