### African American and African Studies

**1121 African Civilizations to 1870**  
U 3  
Exploration of the political, social, and economic history of precolonial African civilizations, using a variety of interdisciplinary approaches and materials. Prereq: English 1110. GE historical study and diversity global studies course.

### Anthropology

**2200 Introduction to Physical Anthropology**  
U 4  
A scientific examination of humans as biological and cultural organism based on primate evolution from living and fossil evidence; evolutionary theory and population adaptability. This course includes laboratory activities.  
Prereq: Biology 1101 (101) or equiv. Not open to students with credit for 200. GE nat sci bio course.

### Art

**2100 Beginning Drawing**  
U 3  
Students will explore fundamental freehand drawing techniques with a range of drawing methods, media and concepts; emphasis on drawing from observation and expressive experimentation. Students will apply written, oral and visual communication skills as they evaluate, interpret and respond to significant works of art and their own expressive goals. This course is available for EM credit. GE VPA course.

### Astronomy

**1140 Planets and The Solar System**  
U 3  
Physical nature of the sun and its family of planets, satellites, comets and minor bodies; gravitation, light, and telescopes. Not recommended for students who plan to continue in astronomy or physics.  
Prereq: ACT Math Score of 22 or higher, or Math Placement Level R or better, or Math 1050 (075) or 102, or permission of instructor. Not open to students with credit for 1161 (161), 1161H (161H), 229H (291), or 171. This course is available for EM credit. GE nat sci bio course. NS Admis Cond course.

### Biology

**1101 Introductory Biology**  
U 4  
Basic principles of biology; topics include the nature of science, organismal diversity, evolution, ecology, genetics, reproduction, and cellular structure and function. Not intended students majoring in one of the biological sciences.  
Prereq: Not open to students with credit for 1101E, 1113 (113), 1113H (115H), 101, Entmlgy 1101 (101), or MolGen 1101 (PlantBio 101). This course is available for EM credit. GE nat sci bio course.

**1102 Human Biology**  
U 4  
Exploration of human biology; topics include structure and physiological function, reproduction and development, genetics and disease, ecology, and evolution. Not intended for students majoring in one of the biological sciences.  
Prereq: Not open to students with credit for 102. This course is available for EM credit. GE nat sci bio course.

**1105 Human Biology in Cinema**  
U 3  
Human biology in Cinema will show that mainstream films with a core biological theme can be entertaining AND educational and that having some basic biological insights will enhance your comprehension and appreciation of these films. Lectures and discussions will cover basic principles in biology that will help elucidate the content of each film.  
GE nat sci bio course. NS Admis Cond course.

**1113 Biological Sciences: Energy Transfer and Development**  
U 4  
Exploration of biology and biological principles: evolution and the origin of life, cellular structure and function, bioenvironmental science, and genetics. A broad introduction to biology comprises both Biology 1113 and 1114.  
Prereq: Math 1130 (130), 1148, 1150, or above, or Math Placement Level L or M. Prereq or concur: Chem 1110 (110), 1210 (121), 1610, or 1910H (201H), or permission of course coordinator. Not open to students with credit for 113. This course is available for EM credit. GE nat sci bio course. NS Admis Cond course.

**1114 Biological Sciences: Form, Function, Diversity, and Ecology**  
U 4  
Exploration of biology and biological principles: evolution and speciation, diversity in structure, function, behavior, and ecology among prokaryotes and eukaryotes. A broad introduction to biology comprises both Biology 1113 and 1114.  
Prereq: Math 1130 (130), 1148, or 1150 or above, or Math Placement Level L or M. Prereq or concur: Chem 1110 (110), 1210 (121), 1610, or 1910H (201H), or permission of course coordinator. Not open to students with credit for 114. This course is available for EM credit. GE nat sci bio course. NS Admis Cond course.

### Business Admin: Finance

**3220 Business Finance**  
U 3  
Introductory finance class which allows students develop the skills to understand how financial managers make value-maximizing decisions for their firms. Prereq: Econ 2001.01 (200), and 2002.01 (201), and AcctMIS 2200 (211). Prereq or concur: AcctMIS 2300. Not open to students with credit for 620, or to students enrolled in UUSS, UEexp or PreBSBA-PR.

**3500 Legal Environment of Business**  
U 1½  
An introduction to American legal institutions, sources of law, and an analysis of basic concepts of public and private law related to business decisions.  
Prereq: Soph standing. Not open to students with credit for 510, or to students enrolled in UUSS, UEexp or PreBSBA-PR.
Introduction to International Business

Basic coverage of world trade and investment problems, and introduction to multinational corporation strategies and the various types of environments in which they do business. Prereq: Econ 2002.01 (201), and Econ 2001.01 (200) or ADEEcon 2001.01 (200). Not open to students with credit for BusAdm 555. Not open to students enrolled in UUSS, UEap or PreBSBA-PR.

Business Skills & Environment

Introduce the role of business in the lives of individuals, consumers, employees, and citizens. Focus on the concept of ethical leadership with emphasis on both oral and written communication skills for the business environment. Prereq: English 1110 (110), or equivalent; and admission to the Business Administration major. Not open to students with credit for BusAdm 499, 499.01, or BusMHR 2291. Not open to pre-business students.

Managing Individuals in Organizations: Organizational Behavior and Human Resources

Principles for managing the performance of individuals and groups in organizations; introduction to organizational behavior theory and its application to staffing, training, compensation, and appraisal. Prereq: Econ 2001.01 (200) and 2002.01 (201), or equivalent. Not open to students with credit for 3110 (401) or 701. Not open to students enrolled in UUSS, UEap or PreBSBA-PR.

Six Sigma Principles

Designed to familiarize students with the Six Sigma process improvement methodology and to provide them an opportunity to practice using Six Sigma Black Belt tools. Prereq: 2320 (330), 2321 (331), 3230 (630), and AcctMIS 2200 (211), 2300 (212); and BusMHR 2291 or 2292 (BusADM 499.01). Not open to students with credit for 710.

Marketing Projects

In this advanced marketing course students will act as a consulting team and work with a client firm on a marketing problem, produce a report and present their work. Prereq: 4201 (750), 4202 (758), and BusMHR 2292 (BusAdm 499.01), or equiv; or enrollment in regional campus General Business Program.

Elementary Chemistry

Introductory chemistry for non-science majors, including dimensional analysis, atomic structure, bonding, chemical reactions, states of matter, solutions, chemical equilibrium, acids and bases, along with topics in organic and biological chemistry. Prereq: Math 1073, 1074, 1075 or above; Math Placement Level L, M, N, or R; or ACT Math subscore of 22 or higher that is less than 2 years old. Not open to students with credit for 1210, 1250, 1610, or 1910H. This course is available for EM credit. GE nat sci phys course.

General Chemistry I

First course for science majors, covering dimensional analysis, atomic structure, the mole, stoichiometry, chemical reactions, thermodynamics, electron configuration, bonding, molecular structure, gases, liquids, and solids. Prereq: One unit of high school chemistry, and Math Placement Level L or M; or a grade of C- or above in Math 1120, 1131, 1131, 1148, 1150, or above. Not open to students with credit for 1220, 1620, 1920H, 1250, 1610, or 1910H. This course is available for EM credit. GE nat sci phys course.

General Chemistry for Engineers

First course for engineering majors, covering dimensional analysis, atomic and molecular structure, the mole, stoichiometry, chemical reactions, states of matter, solutions, kinetics, equilibrium, acids and bases, thermodynamics, and electrochemistry. Prereq: One unit of high school chemistry, and Math Placement Level L or M; or a grade of C- or above in Math 1130 (130), 1131 (131), 1148 (148), or 1150 (150), or above. Not open to students with credit for 1210, 1610, 1910H, 125, 2350, 2510 (251), 2520, or 2910H (251H). This course is available for EM credit. GE nat sci phys course.

Literature and Society

Examines literature intended for children, including picturebooks; traditional tales; novels of realism, and fantasy; nonfiction; poetry; and multicultural books. Prereq: English 1110, or equiv. Not open to students with credit for 457. GE lit course.

Comparative Studies

Study of relationships among politics, society, and literature; analysis of social and political elements of literature and film from diverse cultures and historical periods. Prereq: English 1110 (110) or equiv. Not open to students with credit for 210H (201H, 201). GE lit and diversity global studies course.

Earth Science

The materials of the Earth's crust, the processes that produce and modify them, the development of the Earth and its life forms through time, and responsible stewardship of the earth's resources. Not intended for ASC B.S. students. Prereq: Not open to students with credit for 1121. This course is available for EM credit. GE nat sci phys course.

Principles of Microeconomics

Introduction to economic theory: supply and demand for goods, services, and factor inputs; market structure; international trade, the distribution of income. First required course for students planning to take 4000-level courses in Econ. Prereq: Not open to students with credit for 2001.02, 2001.03H, 200, 200H, or ADEEcon 2001 (200). This course is available for EM credit. GE soc sci human, nat, and econ resources course. SS Admis Cond course.

Principles of Macroeconomics

Introduction to the theory of national income determination; economic fluctuations; money; government policy; international economics. Prereq: Not open to students with credit for 2002.02, 2002.03H, 201, or 201H. This course is available for EM credit. GE soc sci orgs and polities course.

Field Experience

Professional service with children or youth in a school or community agency. Prereq: Permission of instructor. Repeatable to a maximum of 15 or hrs or 15 completions.

Field Experience: Middle Childhood Education

The experience is designed to provide: lesson planning, teaching, and classroom management; student learning, interests, and perspectives; (3) the requirements of being a professional educator; and effectively bringing together the work done in a university classroom with work done in grade 4-9 classrooms. Prereq: Admission to Middle Childhood Education Major. Repeatable to a maximum of 4 or hrs or 4 completions.

Field Experience: Child and Youth Studies

Field experience designed to provide undergraduate students in the Child & Youth Studies program an opportunity to work with a cooperating professional within an educational or community organization focusing on teaching & learning. Prereq: Admission to Child and Youth Studies Major. Repeatable to a maximum of 4 or hrs or 4 completions.

Literature for Adolescents

Literature for individual, group, and whole-class reading in junior and senior high schools; interest factors and literary value as criteria for selection; bibliographic aids. Prereq: English 1110 or equiv. Not open to students with credit for 656 or 3356E. GE lit course.

Internship

Internship in an educational or community setting. Prereq: Permission of instructor. Repeatable to a maximum of 15 or hrs or 15 completions.

Teaching and Learning in Literacy in Grades Pre-K - 3

Examination of children's oral and written language development and related theoretical understandings instrumental for teaching language arts including evaluation processes and instructional materials. Prereq: Enrollment in Education major or Master of Education.

Early Childhood Pedagogy

Pedagogy I explores sociocultural perspectives on teaching and learning in early childhood and elementary education, the role of teacher as researcher/inquirer, and the ways in which sociocultural pedagogies interface with standard-based education. Prereq: Admission to major or M.Ed. Not open to students with credit for 723.

Teaching and Learning of Social Studies Grades Pre-K - 3

Designed to provide opportunities to examine interesting and effective social studies content knowledge, cultural understandings, and pedagogies for the early childhood learner within global contexts. Prereq: Not open to students with credit for 737.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5191.01</td>
<td>Supervised Student Teaching Internship: Early Childhood Education</td>
<td>U</td>
<td>G</td>
<td>3 - 15</td>
</tr>
<tr>
<td></td>
<td>Student teaching is designed to assess and support preschool prep-k#3rd grade</td>
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<td>3rd grade as teachers as they develop the necessary knowledge, skills, and dispositions required for beginning level teachers. Pre Req: Admission to Early Childhood Education major or MED program. Repeatable to a maximum of 30 or hrs or 2 completions.</td>
</tr>
<tr>
<td>5191.02</td>
<td>Supervised Student Teaching Internship: Middle Childhood Education</td>
<td>U</td>
<td>G</td>
<td>3 - 15</td>
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<tr>
<td></td>
<td>Student teaching is designed to assess and support pre-k4th-6th grade teachers</td>
<td></td>
<td></td>
<td>as they develop the necessary knowledge, skills, and dispositions required for beginning level teachers. Pre Req: Admission to Middle Childhood Education Major or MED program. Repeatable to a maximum of 30 or hrs or 2 completions.</td>
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<tr>
<td>5195.01</td>
<td>Reflective Seminar: Early Childhood Education</td>
<td>U</td>
<td>G</td>
<td>1 - 4</td>
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<td></td>
<td>This course serves as the place for mediating learning &amp; applying it to the practical.</td>
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<td>You will engage in reading, discussion, &amp; reflection to develop your understanding of the relationship between what you learn in the university classroom &amp; what you experience in the elementary classroom. Pre Req: Admission to Early Childhood Education Major or MED program. Repeatable to a maximum of 10 or hrs or 5 completions. This course is graded S/U.</td>
</tr>
<tr>
<td>5195.02</td>
<td>Reflective Seminar: Middle Childhood Education</td>
<td>U</td>
<td>G</td>
<td>1 - 4</td>
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<td></td>
<td>Reflective Seminar is part one of a 3-part seminar that takes place over the course of 3 semesters. This course includes what is often viewed as the more traditional 'science' of teacher preparation. Pre Req: Admission to Middle Childhood Education Major or MED program. Repeatable to a maximum of 10 or hrs or 5 completions. This course is graded S/U.</td>
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<tr>
<td>5225</td>
<td>Diverse Literature and Comprehension - Elementary-Middle Education</td>
<td>U</td>
<td>G</td>
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<td></td>
<td>Meets state requirements for understanding theory and methods linking the teachers' understanding of diverse literature with comprehension theory and practice and the related construction of literate environments.</td>
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<tr>
<td>5270</td>
<td>Mathematics Methods for Preservice Middle Childhood Teachers</td>
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<td></td>
<td>Preservice teachers study methods for teaching middle childhood mathematics. These methods include instruction, assessment, and learning theory to support the teaching and learning of mathematics in grades 4 through 9. Pre Req: Not open to students with credit for 709.</td>
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<tr>
<td>5275</td>
<td>Science Methods for Preservice Middle Childhood Teachers</td>
<td>U</td>
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<td>3</td>
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<td></td>
<td>Prospective teachers study methods of science instruction and assessment of student learning in grades 4 through 9, with an emphasis on inquiry-based learning and formative assessment of student understanding. Pre Req: Not open to students with credit for 719.</td>
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<tr>
<td>5282</td>
<td>The Social Transitions of 4th and 5th Grade Learners</td>
<td>U</td>
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<td></td>
<td>Focuses on the social and emotional development of the early adolescent in society, home and in the classroom setting. Pre Req: 3160 or HDFS 2410, and EduTL 3189, 4189, or 5189; or Grad standing.</td>
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<tr>
<td>5468</td>
<td>Foundations of Reading and Literacy</td>
<td>U</td>
<td>G</td>
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<td></td>
<td>Introduction to the theories and practices of teaching and learning of literacy for children in early and middle childhood. Major themes of the course are a child-centered philosophy of literacy instruction and diversity awareness - the need for teachers to be aware of the diversity of backgrounds and abilities that children bring to the classroom and of strategies for dealing with that diversity.</td>
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<tr>
<td>5469</td>
<td>Language and Word Study for All Learners</td>
<td>U</td>
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<td>This course provides a detailed examination of the ways that oral and written languages work and how this development of English word reading and spelling skills for learners who are monolingual speakers of Standard English as well as those who speak other languages and varieties of English. Pre Req: 5468.</td>
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<tr>
<td>5470</td>
<td>Assessment and Instruction for Struggling Readers</td>
<td>U</td>
<td>G</td>
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<td></td>
<td>Provides an introduction to theories, assessments, and instructional practices that effectively address the literacy needs of struggling and at-risk readers. Laboratory experience required. Pre Req: 5468 and 5469, or permission of instructor.</td>
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**Educational Studies: Counselor Education**

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<tr>
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<tr>
<td>2189S</td>
<td>First Education Experience Program (FEEP)</td>
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<td>U</td>
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<td></td>
<td>Provides opportunities for students to explore education as a possible career path via a combination of field and seminar requirements. Students spend time in local, public Prek-12 school-based settings, interacting with various professionals and students. GE service learning course.</td>
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</tbody>
</table>

**Educational Studies: Educational Psychology**
2464 Introduction to Comics Studies  U  3  
Study of sequential comics and graphic narrative and the formal elements of comics, how word and image compete and collaborate in comics to make meaning and how genre is activated and redeployed. Students analyze comics texts, articulate and defend interpretations of meaning and learn about archival research at OSU’s Billy Ireland Cartoon Library and Museum. No background in comics is required. Prereq: 1110. GE VPA course.

3398 Methods for the Study of Literature  U  3  
Serves as the "Methods" course for the Literature and Creative Writing concentrations within the English major. Its purpose is to familiarize students with literary studies in such a way as to prepare them for advanced courses in all literary fields and the genres of Creative Writing. Required of English majors. Open to English majors only or by dept permission. Prereq: 1101.01, and declared major in English. Sr students must have the permission of the Director of Undergraduate Studies. Not open to students with credit for 2298 or 3398H.

3467S Issues and Methods in Tutoring Writing  U  3  
Theories and practices in tutoring and writing; explores writing-learning connections and prepares students to work as writing consultants/tutors for individuals and small writing groups. Prereq: 1110.01 (1101.01) or equiv. Not open to students with credit for 467 or ArtsSci 3467S (HumCol 467). Cross-listed in ArtsSci.

4150 Cultures of Professional Writing  U  3  
Examine writing in various workplaces. Analyze writing discourse that shapes professional organizations. Explore ongoing technological and cultural shifts required of workplace writers and the role of digital media. Prereq: 1110 and any 2367. Not open to students with credit for HumCol 450.01, 450.02, 450.03, or CSTD 4150.

4573.02 Rhetoric and Social Action  U  3  
Examination of persuasive strategies in social interaction, such as social movements, political protests, cultural trends, rituals and ceremonies, and everyday practices. Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs or 3 cr hrs in 2367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 573.02.

4582 Special Topics in African-American Literature  U  3  
Focuses on themes in African American Literature. Topic varies. Examples: Neo-slave narratives; the Harlem Renaissance; literature by African-American women. Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs or 3 cr hrs in 2367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 4582 (582) or AFAM-4582 (582). Repeatable to a maximum of 6 cr hrs. Cross-listed in AFAMAS.

Environment and Natural Resources

2100 Introduction to Environmental Science  U  3  
Introduction to environmental science, the ecological foundation of environmental systems, the ecological impacts of environmental degradation by humans, and strategies for sustainable management of environment and natural resources. This course is available for EM credit. GE nat sci bio course.

Evolution, Ecology and Organismal Biology

2520 Human Physiology  U  3  
A survey of the human nervous system, sense organs, muscle function, circulation, respiration, digestion, metabolism, kidney function, and reproduction. Prereq: 3 sem cr hrs in Biological Sciences. Not open to students with credit for 232. GE nat sci bio course. NS Admis Cond course.

Exploration

1100.01 University Exploration Survey  U  1  
Introduction to the process of decision making and exploring majors at Ohio State; introduction to university community; strategies for successful transition and participation in that community; university resources and procedures. Prereq: Fresh standing in Exp. and permission of instructor. Not open to students with credit for 100.01, 100.01H, 100.02, or 100.03.

French

1101.61 Beginning French I: Individualized DL  U  1 - 4  
Individualized introduction to French via distance learning; development of listening, reading, speaking, and writing skills. Taught in French. Course not open to native speakers, students with EM credit, or to students with two or more years of study in this language in high school. Prereq: Not open to students with credit for 1101.01 or 4 cr hrs of 1101.51. Repeatable to a maximum of 4 cr hrs or 4 completions. This course is available for EM credit. GE for lang course.

1102.61 Beginning French II: Individualized DL  U  1 - 4  
Continued individualized study of French via distance learning; development of listening, reading, speaking, and writing skills; readings based on contemporary French culture and literature. Taught in French. Prereq: 1101.01, or completion of 4 cr hrs of 1101.51 or 1101.61. Not open to students with credit for 1102.01 or 4 cr hrs of 1102.51. Repeatable to a maximum of 4 completions or 4 cr hrs. This course is available for EM credit. GE for lang course.

1103.61 Beginning French III: Individualized DL  U  1 - 4  
Continued development of listening, speaking, and reading and writing with an emphasis on oral and written skills; focus on functional topics and thematic vocabulary. Taught in French via distance learning. Prereq: 1101.01 and 1102.01; or completion of 4 cr hrs of 1101.51 or 1101.61, and completion of 4 cr hrs of 1102.51 or 1102.61. Not open to students with credit for 1103.01, 1103.02, 1103.03, or 1103.04; or 4 cr hrs of 1103.51. Repeatable to a maximum of 4 cr hrs or 4 completions. This course is available for EM credit. GE for lang course.

1900 Extreme Weather and Climate  U  4  
Surveys characteristics and processes of Earth's atmosphere and how it interacts with the planet's surface, oceans, and human activity. The course focuses on how these interactions work to produce extreme weather events and climate extremes and how they affect people. Prereq: Not open to students with credit for 1900H (120H), 2960 (220), 5960 (520), 120, or AtmosSc 2960 (230). GE nat sci phys course.

2750 World Regional Geography  U  3  
Develops students' knowledge of world geography through the twin concepts of region and globalization; focuses on culture, society, politics, economy, and interplay between people and environments. Prereq: Not open to students with credit for 200 or 2750H (200H). GE soc sci human, nat, and econ resources and diversity global studies course. SS Admis Cond course.

2101 Launching America  U  3  
An intermediate-level approach to American history in its wider Atlantic context from the late Middle Ages to the era of Civil War and Reconstruction. Sometimes this course is offered in a distance-only format. Prereq or concur: English 1110.xx, or permission of instructor. Not open to students with credit for 1151 (151). GE historical study and diversity soc div in the US course.

2231 The Crusades  U  3  
Examines the various European crusades - in the Holy Land, Spain, Eastern Europe, and southern France - from their origins to the late 15th century. Sometimes this course is offered in a distance-only format. Prereq or concur: English 1110.xx, or permission of instructor. GE historical study and diversity global studies course.

2250 Empires and Nations in Western Europe, 1500 - Present  U  3  
Comparative study of the Modern European Overseas Empires from the "age of discovery" to the postcolonial present. Sometimes this course is offered in a distance-only format. Prereq or concur: English 1110.xx, or permission of instructor. GE historical study and diversity global studies course.
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<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2353</td>
<td>The Middle East Since 1914</td>
<td>U 3</td>
<td>An introductory study of the political, social, and cultural history and evolution of Islamic civilization since 1914. The course will examine the impact of outside power on the Middle East, as well as the region's responses to modernity, political, socioeconomic and cultural change, ideological strategy, Islamic identity and globalization; and changes in media of communication. Prereq: English 1110.xx or permission of instructor. Not open to students with credit for 3358 or 540.05. GE historical study course.</td>
</tr>
<tr>
<td>2700</td>
<td>Global Environmental History</td>
<td>U 3</td>
<td>Global overview of the ecology of the human condition in past time, stressing climate change, earth systems, technology, energy, demography, and human cultural-economic revolutions. Prereq or concour: English 1110.xx. Not open to students with credit for 366.01. GE historical study and soc sci human, nat, and econ resources and diversity global studies course.</td>
</tr>
<tr>
<td>3247</td>
<td>Magic and Witchcraft In Early Modern Europe (1450-1750)</td>
<td>U 3</td>
<td>Investigation of the history of European witchcraft, focusing on intellectual, religious, and social developments and on the great witchcraft trials of the early modern period. Sometimes this course is offered in a distance-only format. Prereq: English 1110.xx, or permission of instructor. GE historical study and diversity global studies course.</td>
</tr>
<tr>
<td>4255</td>
<td>Seminar in Modern European History</td>
<td>U 3</td>
<td>Advanced research and readings on selected topics in Modern European History. Prereq or concour: English 1110.xx, a grade of C or above in History 2800, and any 3000-level History course; or permission of instructor.</td>
</tr>
<tr>
<td>2001</td>
<td>Western Art I: Ancient and Medieval Worlds</td>
<td>U 3</td>
<td>Examination of the history of Western Art from the third millennium BCE to the fifteenth century CE. This course is available for EM credit. GE VPA and historical study and diversity global studies course.</td>
</tr>
<tr>
<td>2210</td>
<td>Science of Human Nutrition</td>
<td>U 3</td>
<td>Basic principles of biological science, emphasizing the interaction between nutrients and physiological (including cellular) processes. Prereq: Not open to students with credit for 210. GE nat sci bio course.</td>
</tr>
<tr>
<td>1103</td>
<td>Introduction to Health and Wellness in American Society</td>
<td>U 2</td>
<td>A study of student health problems; designed to foster understandings and attitudes needed for intelligent decision-making related to present and future health needs.</td>
</tr>
<tr>
<td>1147</td>
<td>Principles of Fitness and Wellness</td>
<td>U 2</td>
<td>Course is designed to introduce students to concepts of wellness which include domains of the physical, social, emotional, spiritual, environmental, occupational, intellectual, and financial. The course will emphasize the relationship between wellness and quality of life over the lifespan. Students will develop a personal program that includes exercise, nutrition, and disease prevention.</td>
</tr>
<tr>
<td>1148.04</td>
<td>Conditioning Activities: Strength Training</td>
<td>U 1</td>
<td>Students will participate in a progressive strength and endurance training program using weight machines, free weights, and other strength equipment.</td>
</tr>
<tr>
<td>1150.02</td>
<td>Fitness and Wellness Cardiovascular Exercise</td>
<td>U 2</td>
<td>Online course that promotes principles of fitness and wellness over the lifespan. Prereq: Not open to students with credit for 1147, 1148.05 or 1149.05, 1150.01, or EduPAES 1147, 1149.05, 1149.05, 1150.01, or 1150.01.</td>
</tr>
<tr>
<td>2250</td>
<td>Discussion of the latest findings on avoiding cancer through lifestyle choices and assessment of one's family health history.</td>
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**Mathematics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1050</td>
<td>Precalculus Mathematics I</td>
<td>U 5</td>
<td>Fractions and decimals, basic algebra, graphing lines, factoring, systems of equations. Credit for this course will not count toward graduation in any degree program. Prereq: 1040 (040) or 050, or Math Placement Level T, or permission of department. Not open to students with credit for any Math course above 1050 (050). This course is available for EM credit.</td>
</tr>
<tr>
<td>1075</td>
<td>Precalculus Mathematics II</td>
<td>U 4</td>
<td>Algebraic, rational, and radical expressions; functions and graphs; quadratic equations; absolute value; inequalities; and applications. Credit for this course will not count toward graduation in any degree program. Prereq: 1074 or 075, or a grade of C- or above in 1050; or Math Skills Assessment Level R or S; or ACT math subscore of 22 or higher that is less than 2 years old. Not open to students with credit for any Math course above 1075, except for 1116; or for any quarter-system course above 075, except for 116. This course is available for EM credit. GE quant reason basic computation course.</td>
</tr>
<tr>
<td>1116</td>
<td>Excursions in Mathematics</td>
<td>U 3</td>
<td>Critical thinking and problem solving, with relevant topics met in everyday life. Appropriate for non-science majors. Prereq: 1073, 1074, 1075, 75, or 104; or Math Placement Level R or above; or ACT math sub score of 22 or higher that is less than 2 years old. Not open to students with credit for 1152 (153) or above. GE quart reason math and logical anly course.</td>
</tr>
<tr>
<td>1130</td>
<td>College Algebra for Business</td>
<td>U 4</td>
<td>Algebraic, exponential, and logarithmic functions. Matrix algebra. Applications to business. Prereq: A grade of C- or above in 1075, or credit for 104, or Math Placement Level M or N, or ACT math subscore of 22 or higher that is less than 2 years old. Not open to students with credit for 1131 (131), or for any Math course numbered 1149 (150) or above. This course is available for EM credit. GE quant reason math and logical anly course.</td>
</tr>
<tr>
<td>1131</td>
<td>Calculus for Business</td>
<td>U 5</td>
<td>Survey of calculus of one and several variables; applications to business. Prereq: A grade of C- or above in 1130, 1144, 1148, or 150, or credit for 130, 148, or 150, or Math Placement Level L. Not open to students with credit for 1151 (151) or above, or 1134 (132). This course is available for EM credit. GE quant reason math and logical anly course.</td>
</tr>
<tr>
<td>1135</td>
<td>Number and Operations for Teachers</td>
<td>U 5</td>
<td>The first course in a two semester sequence for teachers of elementary and middle grade students. This course focuses on concepts of numbers and arithmetic operations, including modern and historical perspectives. Prereq: A grade of C- or above in 1075; or credit for 1074, 75, or 104, or Math Placement Level R or above; or ACT math sub score of 22 or higher that is less than 2 years old. Not open to students with credit for 106.</td>
</tr>
<tr>
<td>1148</td>
<td>College Algebra</td>
<td>U 4</td>
<td>Functions: polynomial, rational, radical, exponential, and logarithmic. Introduction to right-angle trigonometry. Applications. Prereq: A grade of C- or above in 1075, or credit for 104 or 148, or Math Placement Level N, or ACT math sub score of 22 or higher that is less than 2 years old, or permission of department. Not open to students with credit for 1144, or for Math courses numbered 1150 (150) or above. This course is available for EM credit. GE quant reason math and logical anly course.</td>
</tr>
<tr>
<td>1149</td>
<td>Trigonometry</td>
<td>U 3</td>
<td>Trigonometric functions and their properties. Vectors, polar coordinates and complex numbers. Prereq: A grade of C- or above in 1148, or permission of department. Not open to students with credit for 1144, or for Math courses numbered 1150 (150) or above. This course is available for EM credit. GE quant reason math and logical anly course.</td>
</tr>
<tr>
<td>1150</td>
<td>Precalculus</td>
<td>U 5</td>
<td>Functions: polynomial, rational, radical, exponential, logarithmic, trigonometric, and inverse trigonometric. Specifications. Prereq: Math Placement Level M. Not open to students with credit for 1144, 1148, or for 1149 or above, or for any quarter Math course numbered 150 or above. This course is available for EM credit. GE quant reason math and logical anly course.</td>
</tr>
<tr>
<td>1151</td>
<td>Calculus I</td>
<td>U 5</td>
<td>Differential and integral calculus of one real variable. Prereq: A grade of C- or above in 1148 and 1149, or in 1148, 1150, or 150, or Math Placement Level L. Not open to students with credit for 1152 or 152.xx, or above. This course is available for EM credit. GE quant reason math and logical anly course.</td>
</tr>
<tr>
<td>1152</td>
<td>Calculus II</td>
<td>U 5</td>
<td>Integral calculus, sequences and series, parametric curves, polar coordinates, (optional: vectors). Prereq: A grade of C- or above in 1114 (114), 1151, 1156, 1161.xx, 152.xx, 161.xx, or 161.01H. Not open to students with credit for 1172, 1181H or any Math class numbered 1500 or above, or with credit for 153.xx, or Math courses numbered 162.xx or above. This course is available for EM credit. GE quant reason math and logical anly course.</td>
</tr>
<tr>
<td>1172</td>
<td>Engineering Mathematics A</td>
<td>U 5</td>
<td>Techniques of integration, Taylor series, differential calculus of several variables. Applications. Prereq: A grade of C- or above in 1114 (114), 1151, 1156, 1161.xx, 152.xx, 161.xx, or 161.01H. Not open to students with credit for 1132, 1534 (153.xx), or 1544 (154), or for any Math class numbered 1172 or above, or for any quarter-system Math class numbered 254.xx or above. Not open to students majoring in Math, pre-Actuarial Science, or Actuarial Science. This course is available for EM credit.</td>
</tr>
<tr>
<td>2137</td>
<td>Algebra and Coordinate Geometry for Teachers</td>
<td>U 3</td>
<td>This is one of two independent courses which follow Math 1136 to provide necessary content for middle grade teachers. This course focuses on algebra, coordinate geometry, and their connections through equations in one or more unknowns. Modern and historical perspectives are woven throughout. Prereq: A grade of C- or above in 1136; and a grade of C- or above in 1149 or 1150, or credit for 150, or math placement level L.</td>
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</table>
6 Music

Musics

3349 The Beatles in 20th Century Music U 3
Twentieth-century art music and popular traditions seen through the prism of the Beatles songs. Prereq: English 1110 (110) or 1111 (111), or equiv. Not open to students with credit for 349. GE VPA course.

Philosophy

1100 Introduction to Philosophy U 3
Examination of major problems, such as the nature of reality, knowledge, truth, morality, and the relation of philosophy to science and religion. Prereq: Not open to students with credit for 101 or 101H. GE cultures and ideas course.

1300 Introduction to Ethics U 3
The nature of right and wrong, good and evil; the grounds of moral choice and decision; the resolution of moral conflicts. Prereq: Not open to students with credit for 130 or 130H. GE cultures and ideas course.

1106.01 Physics by Inquiry: Properties of Matter, Heat and Temperature, and Forces and Motion U 5
Investigation of the properties of matter, motion and thermodynamics using the inquiry technique. Intended for non-science majors. Prereq: Not open to students with credit for Physics 106 and 107. GE nat sci phys course. NS Admins Cond course.

1200 Mechanics, Kinematics, Fluids, Waves U 5
Algebra-based introduction to classical physics: Newton's laws, fluids, waves. Prereq: A grade of C- or above in Math 1148 (148), or Math Placement Level M. Not open to students with credit for 111. This course is available for EM credit. GE nat sci phys course. NS Admins Cond course.

1250 Mechanics, Work and Energy, Thermal Physics U 5
Calculus-based introduction to classical physics: Newton's laws, work and energy, fluids, thermodynamics; for students in physical sciences, mathematics, and engineering. Prereq or concour: Math 1141, 1151, 1156, 1161, 1181H, or 4181H. This course is available for EM credit. GE nat sci phys course.

Political Science

1100 Introduction to American Politics U 3
Introduction to American politics, the institutions and processes which create public policy, the strengths and weaknesses of the American political systems. Prereq: Not open to students with credit for 3100 (300), 101, or 101H. This course is available for EM credit. GE soc sci orgs and polities course. SS Admins Cond course.

1300 Global Politics U 3
Cooperation and conflict in world politics. Covers basic theories of international relations and key issues, including security, political economy, international organizations, and the environment. Prereq: Not open to students with credit for 145 or 145H. GE soc sci human, nat, and econ resources and diversity global studies course.

Psychology

1100 Introduction to Psychology U 3
A prerequisite to advanced courses; a broad survey of psychological science. Application of the scientific method to the empirical study of behavior with emphasis on individual and cultural differences. Prereq: Not open to students with credit for 100, 1100H (100H) or 1105E (100E). This course is available for EM credit. GE soc sci indivs and groups and diversity soc div in the US course.

2220 Data Analysis in Psychology U 3
Discussion of statistical analysis of psychological data - random samples, graphical and numerical techniques of descriptive statistics, correlation, regression, probability, sampling distribution, and hypothesis testing Prereq: Math 1130, Math 1148 (148), Math 1149, 1150 (150), 1151 (151), or Math Placement Level M or higher; or permission of instructor. Not open to students with credit for 2220, 2220H, 3220, 3220H. This course is available for EM credit.

2367.01 Social Psychology U 3
Survey of group processes as they affect individual behavior; topics include individual motivation, group behavior, attitudes, and perception of self and others. Prereq: 1100 (100) or 1100H (100H), and English 1110.01, 1110.01H, 1110.02, 1110.02H, 1110.03, 110, or 111, or equiv, and Soph standing or above. Not open to students with credit for 3325 (325), 3325H (325H), or 367.01, GE writing and comm: level 2 and soc sci indivs and groups course.

2376 Interpersonal Relationships U 3
Surveys the scientific literature on interpersonal relationships, including family, friends, and romantic partnerships.

3312 Memory and Cognition U 3
An introduction to experimental study of human memory and cognition. Prereq: 1100 (100) or 1100H (100H). Not open to students with credit for 312.

3313 Introduction to Behavioral Neuroscience U 3
Introduction to the structure and function of the nervous system in relation to behavior. Prereq: 1100 or 1100H.

3331 Abnormal Psychology U 3
Examination of current theories and empirical findings regarding the major forms of psychopathology and treatment. Prereq: 1100 (100) or 1100H (100H). Not open to students with credit for 2367.02, 331, 331H (331H), or 333E (331E).

4505 History of Psychology U 3
Development of psychology from the 19th century to present status as science and profession. Emphasis on contributions and lives of psychologists. Prereq: A grade of C- or above in 2220 and 2300. Not open to students with credit for 505.

4520 Social Psychology Laboratory U 3
Training in experimental and quantitative methods in social psychology. Experiments include topics such as attitudes, persuasion, social cognition, and group processes. Prereq: A grade of C- or above in 2220, 2300, and 2367 prior to SU13, 2367.01, 3325, 3325H, or 3375, and enrollment in Psych Maj. Not open to students with credit for 4510 (510) or 520.

Social Work

1120 Introduction to Social Welfare U 3
An introduction to the history, structure, and function of the social welfare institution. Prereq: Not open to students with credit for 220 or 520. GE soc sci human, nat, and econ resources course.

1130 Introduction to Social Work in Contemporary Society U 3
An introduction to the core values, fundamental goals, unique functions and methods of the social work profession. Prereq: Not open to students with credit for 230. GE soc sci indivs and groups course.

3101 Professional Values and Ethics U 3
Introduction to the NASW Code of Ethics, ethical theory, and ethical issues and dilemmas that confront professional social workers. Prereq: Enrollment in SocWork major. Not open to students with credit for 690.

3301 Lifespan Development in Social Work U 3
Explores human development across the lifespan, with an emphasis on conceptualizing individuals holistically, taking into account factors from various theories that may have relevance to each age group. Offers information about the importance of understanding lifespan development in social work, basics of lifespan development, research and the scientific method, and major theories and theorists.

3401 Research & Statistics for Understanding Social Work Problems and Diverse Populations U 3
This is the first course in the BSSW program sequence preparing students to effectively work with research evidence and statistics as social work professionals. Students will develop the requisite skills and knowledge for beginning to identify, assess, and apply existing bodies of evidence to answer questions about social work problems and diverse populations. Prereq: Math 1060 or 1075 or above or Math Placement Level R or above, and admission to the Social Work major. Not open to students with credit for 3401E.

3501 Engagement and Interviewing Skills U 3
Addresses interviewing skills critical to social work. Didactic and experiential methods will provide a foundation for practice and facilitate entry into the field. Prereq: Jr or Sr standing, and enrollment in SocWork major.

4188.01 Undergraduate Field Seminar U 1
Integration of knowledge and practice: problem solving and discussion of social work practice issues, values, and ethics. Taken concurrently with field practicum. Prereq: 3502 (645). Concur: 4189. Repeatable to a maximum of 2 cr hrs.

4189 Field Practicum U 5
Internship in a social work agency. Students integrate classroom knowledge and skills with practice experiences. Prereq: 3502 (645). Concur: 4188.01 or 4188.02. Repeatable to a maximum of 10 or hrs. This course is graded S/U.

4501 Generalist Practice with Families U 3
Application of professional values, knowledge, and skills essential for effective generalist social work practice with families. Prereq: 3502 (645). Not open to students with credit for 464.

4502 Generalist Practice with Groups U 3
Application of professional values, knowledge, and skills essential for effective generalist social work practice with small groups. Prereq: 3502 (645). Not open to students with credit for 464.
**Sociology**

1101 Introductory Sociology U 3
Fundamental concepts of sociology and introduction to the analysis of social problems and interactions (e.g., wealth, gender, race, inequality, family, crime) using sociological theories. Au, Sp, Su. Prereq: Not open to students with credit for 101H (101H), 110E, 101. RurlSoc 1500 (105), or equiv. GE soc sci orgs and politi and diversity soc div in the US course.

2310 Sociology of Gangs U 3
Broad range of topics related to gang activity with a focus on why individuals join gangs, societal consequences of gangs, and social policy. Prereq: Not open to students with credit for 310.

3410 Criminology U 3
Theories of delinquency, crime, and criminal careers; scientific aspects of crime measurement. Prereq: Not open to students with credit for 410.

3463 Social Stratification: Race, Class, and Gender U 3
The study of social inequality with a focus on inequalities by class and status, race and ethnicity, and gender. Prereq: Not open to students with credit for 463. GE soc sci human, nat, and econ resources course.

3549 Statistics in Sociology U 3
An introduction to the application and interpretation of quantitative analysis in sociological research; emphasis on the description of social variables and hypothesis testing. Au, Sp, Su. Prereq: Not open to students with credit for 549. GE data anly course.

4505 Capital Punishment in the United States U 3
Examines the role of capital punishment in the contemporary United States. Prereq: Jr or Sr standing; or permission of instructor, or department. Not open to students with credit for 505.

5605 Sociology of Sexuality U G 3
A social and institutional approach to the study of sexuality with a focus in sexual identities, practices, institutions, communities, and sexuality movements. Prereq: Jr, Sr, Grad standing; or permission of instructor, or department. Not open to students with credit for 605.

**Spanish**

1101 Spanish I U 4
Development of listening, reading, speaking, and writing skills in cultural contexts. Not open to native speakers of this language through regular course enrollment or EM credit or to students with 3 or more years of high school Spanish. Students with 1+ years of high school Spanish must take the MultiCAT placement exam. Prereq: Not open to students with credit for 1101.01, 1102, 1102.01, 1103, 1103.01, 1155, or equiv. courses. This course is available for EM credit. GE for lang course.

1102 Spanish II U 4
Further development of listening, reading, speaking, and writing skills in cultural contexts. Both classroom-based and 100% online sections available each semester. Not open to native speakers of this language through regular course enrollment or EM credit. Prereq: 1101 or 1101.01. Not open to students with credit for 1102.01, 1103.01, 1103.51, 1155, or equiv. courses. This course is available for EM credit. GE for lang course.

1103.01 Spanish III U 4
Continuing development of listening, reading, speaking, and writing skills in cultural contexts. A grade of C- or above is required to continue to 2201.01/51 and/or 2202.01/51. Not open to native speakers of this language through regular course enrollment or EM credit. Prereq: 1102 or 1102.01 (103.01) or 1155 (103.66). Not open to students with credit for 104, 104H, 2200, 1103.51, 2201.01, 2201.51, 2202, or 2202.01. This course is available for EM credit. GE for lang course. FL Admis Cond course.

**Theatre**

2000.09 Technical Production Practicum: General U 1
Provides experience in technical production activities. Prereq: Not open to students with credit for 205.

2100 Introduction to Theatre U 3
A study of the art and profession of theatre, with an emphasis on evaluating and appreciating live performance, theatre's cultural importance, and its relationship to issues of social diversity. Students study performance conventions, texts, & spaces from ancient times to present day. While not an acting class, students get firsthand experience in the collaborative process of theatre creation. Prereq: Not open to students with credit for 2105H or 2105H. GE VPA diversity soc div in the US course.

2811 The Craft of Acting U 3
An introductory acting class exploring the basic techniques of imagination, concentration, character development, and script analysis through work on monologues, scenes, and plays. Prereq: Not open to students with credit for 280. GE VPA course.