<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>2193</td>
<td>Individual Studies</td>
<td>U 1-3</td>
<td>Individual Studies for undergraduate students. Prereq: Permission of instructor. Repeatable to a maximum of 6 cr hrs or 2 completions. This course is graded S/U.</td>
</tr>
<tr>
<td>1141</td>
<td>Life in the Universe</td>
<td>U 3</td>
<td>Potential for life elsewhere in the universe, based on discovery of extra-solar planets and nature of life on Earth; search strategies for such life. This course is available for EM credit. GE nat sci phy sci course.</td>
</tr>
<tr>
<td>1101</td>
<td>Introductory Biology</td>
<td>U 4</td>
<td>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, Entmgt 1101 (101), or McGen 1101 (PreBio101). This course is available for EM credit. GE nat sci bio course. GE foundation natural sci course.</td>
</tr>
<tr>
<td>1102</td>
<td>Human Biology</td>
<td>U 4</td>
<td>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.</td>
</tr>
<tr>
<td>1105</td>
<td>Human Biology in Cinema</td>
<td>U 3</td>
<td>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.</td>
</tr>
<tr>
<td>1114.01</td>
<td>Biological Sciences: Form, Function, Diversity, and Ecology</td>
<td>U 4</td>
<td>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 1120, 1130, 1148, or 1150 or above, or Math Placement Level L or M. Prereq or concor: Chem 1110, 1210, 1610, or 1810H, or permission of course coordinator. Not open to students with credit for 1114 or 1114.02. This course is available for EM credit. GE nat sci bio course. GE foundation natural sci course.</td>
</tr>
<tr>
<td>3220</td>
<td>Business Finance</td>
<td>U 3</td>
<td>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 concor: AcctMIS 2300. Not open to students with credit for 620, or to students enrolled in UUSS, UEorPreBSBA-PR.</td>
</tr>
<tr>
<td>3500</td>
<td>Legal Environment of Business</td>
<td>U 1½</td>
<td>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, UEorPreBSBA-PR.</td>
</tr>
<tr>
<td>2292</td>
<td>Business Skills &amp; Environment</td>
<td>U 3</td>
<td>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 1110.01 or equivalent; and admission to the Business Administration major. Not open to students with credit for 2291. Not open to pre-business students.</td>
</tr>
<tr>
<td>3300</td>
<td>Managing Individuals in Organizations: Organizational Behavior and Human Resources</td>
<td>U 3</td>
<td>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 3100 (400) or 701. Not open to students enrolled in UUSS, UEorPreBSBA-PR.</td>
</tr>
<tr>
<td>2200</td>
<td>Introduction to Accounting I</td>
<td>U 3</td>
<td>Preparation and use of accounting reports for business entities; focus on uses of accounting for external reporting, emphasizing accounting as a provider of financial information. Prereq: Econ 2001.01 (200), or equiv. Not open to students with credit for 2000 (310) or 211, or equiv. This course is available for EM credit.</td>
</tr>
<tr>
<td>3300</td>
<td>Cost Accounting</td>
<td>U 3</td>
<td>Managerial decision making in organizations with an emphasis on the use of financial data; theory and practice of management control. Prereq: 2300 (212), BusMgt 2320 (330), 2321 (331), and BusMWR 2292 (BusAdm 499.01); or permission of instructor. Not open to students with credit for 525.</td>
</tr>
<tr>
<td>3601</td>
<td>Introduction to Information Systems</td>
<td>U 1½</td>
<td>The role of information systems in capturing and distributing organizational knowledge and enhancing management decision making, process of redesigning organizations utilizing systems analysis and design, quality assurance, and change management techniques, technical foundation of information systems, including hardware, software, telecommunications, networks, and the information architecture. Prereq: Admission to BSBA program and Business Management specialization.</td>
</tr>
<tr>
<td>1121</td>
<td>African Civilizations to 1870</td>
<td>U 3</td>
<td>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. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>1122</td>
<td>African Civilizations, 1870 to the Present</td>
<td>U 3</td>
<td>Exploration of the political, social, and economic history of colonial and independent African countries, using a variety of interdisciplinary approaches and materials. Prereq: English 1110. GE historical study and diversity global studies course. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>2300.01</td>
<td>Human Anatomy</td>
<td>U 4</td>
<td>Regional study of the basic structure and terminology associated with the human body. Laboratory includes demonstrations on prosected human cadavers. Prereq: Health Science students in Continuing Education (CED), University Exploration (EXP), and Arts and Sciences (ASC) only. Not open to students with credit for 2100.xx or 3300.xx.</td>
</tr>
<tr>
<td>2200</td>
<td>Introduction to Physical Anthropology</td>
<td>U 4</td>
<td>A scientific examination of humans as a 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. GE foundation natural sci course.</td>
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<tr>
<td>2100</td>
<td>Beginning Drawing</td>
<td>U 3</td>
<td>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. GE foundation art course.</td>
</tr>
<tr>
<td>2555</td>
<td>Introduction to Digital Photography and Contemporary Issues</td>
<td>U 3</td>
<td>Students will learn fundamental digital camera techniques and explore contemporary and historical issues in photography including the relationships between technique, concept, and aesthetics as well as the relationship between images, identity formation, and larger social structures. Prereq: Not open to students with credit for 2355. GE VPA course. GE foundation art course.</td>
</tr>
<tr>
<td>3002</td>
<td>Introduction to Ceramics: Structure</td>
<td>U 3</td>
<td>Introduction to Ceramic Structures: lab practices with various modeling and potter’s wheel techniques with lectures covering a broad survey of structural ceramics from brick to tile to sculpture. Prereq: Not open to students with credit for 2592. GE VPA course. GE foundation art course.</td>
</tr>
<tr>
<td>1101</td>
<td>First or Second Year Seminar</td>
<td>U 1</td>
<td>Seminars on varied topics taught by University faculty. Prereq: Fresh or Soph standing, or permission of instructor. Repeatable to a maximum of 6 cr hrs. This course is graded SU.</td>
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</table>
2  Business Admin: Marketing & Logistics

4204  Marketing Projects  U  3
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 2282 (BusAdm 499.01), or equiv.; or enrollment in regional campus General Business Program.

Business Admin: Operations and Business Analytics

4250  Six Sigma Principles  U  3
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, 2321, 3230, and AcctMIS 2200, 2300, and BusMHR 2292; or 3230, ISE 2040, and Stat 3440 or equiv., and enrollment in BSET program.

Chemistry

1110  Elementary Chemistry  U  5
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. GE foundation natural sci.

1210  General Chemistry I  U  5
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, 1130, 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. GE foundation natural sci course.

2510  Organic Chemistry I  U  4
Introduction to structure, nomenclature, physical properties, preparation and reactions of alkanes, alkenes, alynes, alcohols, ethers, epoxides, aldehydes and ketones. Other topics include stereochemistry, acids, bases, and reaction mechanisms. Prereq: 1220 (123), 1620 or 1920H (203H). Not open to students with credit for 252.

2540  Organic Chemistry Laboratory I  U  2
Introduction to spectroscopic characterization, scientific writing, computational chemistry, and the laboratory techniques of organic chemistry, including synthesis, isolation, purification, and identification of organic compounds. Prereq or conc: 2510, 2610 or 2910H.

Comparative Studies

2101  Literature and Society  U  3
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 215H (201H, 201H). GE lit and diversity global studies course. GE foundation lit, vis and performing arts course.

Computer Science and Engineering

2111  Modeling and Problem Solving with Spreadsheets and Databases  U  3
Spreadsheet and database modeling/programming concepts and techniques to solve business related problems; efficient/effective data handling, computational analysis and decision support. Additional topics: computer concepts, networking, project integration. Prereq: Math 1130 or above, or Math Placement Level L or M. Not open to students with credit for 1111 or 1112. This course is available for EM credit. GE quant reason math and logical anly course. GE foundation math and quant reasoning or data analy course.

Consumer Sciences: Hospitality Management

2600  Introduction to Hospitality Management  U  2
Overview of the hospitality-tourism industry. Introduction to and career exploration of various segments of the hospitality-tourism field.

2800  Hotel Management  U  3
An examination of the lodging firm as an operating entity, including structure, management strategies, functional departments, related financial reports and revenue management. Prereq or conc: 2600 (1600 (200)). Not open to students with credit for 560.

Design

2700  Introduction to Design Practice  U  3
Introduction to theory, rationale, practice, and societal impact of design; design process, critical issues, relationship to the environment.

Earth Science

1121  The Dynamic Earth  U  3
This course introduces students to earth sciences. Topics include earth processes and human impacts; the structure and composition of the earth; plate tectonics, block tectonics; rock and water cycles; energy & mineral resources, and climate change. Autumn 2021 and after: Add EarthSc 1200 for Physical Science GE lab credit. Autumn 2022 and after: Add EarthSc 1200 to fulfill GE Foundations: Natural Science. Prereq: Math 1075 or above, or ACT Mathematics Subscore of 22 or higher, or Math Placement Level R or better. Not open to students with credit for 1100. This course is available for EM credit. GE nat sci phys course. GE foundation natural sci course.

1200  Introduction to Earth Science Laboratory  U  1
Laboratory application of basic earth sciences principles to identify and categorize rocks and minerals, use and construct maps to solve geological problems, and analyze Earth’s physical processes. Pair with EarthSc 1105, 1108, 1121, 1151, 2203, 2204, 2205, or 2206(G) for physical science GE with lab. Autumn 2022 and after: Pair with EarthSc 1105, 1108, 1121 or 1151 to fulfill GE Foundations Natural Science. Prereq or conc: 1105, 1108, 1121, 1151, 2203, 2204, 2205, or 2206(S). Not open to students with credit for 1100 or 2122. Not open to students with credit for EarthSc 1121 prior to Au 21. GE nat sci phys course. GE foundation natural sci course.

Economics

2001.01  Principles of Microeconomics  U  3
Introduction to microeconomics: 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, 2001H, or AEDEcon 2001 (200). This course is available for EM credit. GE soc sci human, nat, and econ resources course. GE foundation social and behavioral sci course. SS Adms Cond course.

2002.01  Principles of Macroeconomics  U  3
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. GE foundation social and behavioral sci course.

Education: Teaching and Learning

2189  Field Experience  U  1 - 2
Professional service with children or youth in a school or community agency. Prereq: Permission of instructor. Repeatable to a maximum of 15 hrs or 15 completions.

2368  Introduction to Children’s Literature  U  3
This is a survey course in which students study the historical and contemporary elements of 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 467. GE lit course. GE foundation lit, vis and performing arts course.

3160  Application of Development in Learning Contexts  U  3
Designed for students to apply theories and research of child growth and development in multiple learning contexts. Prereq: Not open to students with credit for 460. GE soc sci indivs and groups course. GE foundation social and behavioral sci course.

3189.01  Field Experience: Early Childhood Education  U  1 - 2
This field experience is designed as a practice-based companion to the EC Pedagogy class. Prereq: Admission to Early Childhood Education Major. Repeatable to a maximum of 4 hrs or 4 completions.

3189.02  Field Experience: Middle Childhood Education  U  1 - 2
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 4 completions.

3189.09  Field Experience: Child and Youth Studies  U  1 - 2
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 hrs or 4 completions.

3356  Literature for Adolescents  U  3
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 365 or 3356E. GE lit course. GE foundation lit, vis and performing arts course.

4191  Internship  U  1 - 15
Internship in an educational or community setting. Prereq: Permission of instructor. Repeatable to a maximum of 15 or hrs or 15 completions.

5102  Teaching and Learning of Literacy in Grades Pre-K - 3  U  G  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: 5469, and enrollment in Education major or Master of Education.
Pedagogy I explores sociocultural perspectives on teaching and learning in early childhood and elementary education, the role of teacher as researcher/learner, 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 - 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.

1519.01 Supervised Student Teaching Internship: Early Childhood Education

Student teaching is designed to assess and support preservice preK-3rd grade teachers as they develop the necessary knowledge, skills, and dispositions required for beginning level teachers. Prereq: Admission to Early Childhood Education Major or MEd program. Repeatable to a maximum of 30 cr hrs or 2 completions.

1519.02 Supervised Student Teaching Internship: Middle Childhood Education

Student teaching is designed to assess and support preservice 4th-8th grade teachers as they develop the necessary knowledge, skills, and dispositions required for beginning level teachers. Prereq: Admission to Middle Childhood Education Major or MEd program. Repeatable to a maximum of 30 cr hrs or 2 completions.

1519.05 Reflective Seminar: Early Childhood Education

This course serves as the place for mediating learning & applying it to the practical. You will engage in reading, discussion, & reflection to develop your understanding of the relationship between what you learn in the university classroom & what you experience in the elementary classroom. Prereq: Admission to Early Childhood Education Major or MEd program. Repeatable to a maximum of 10 cr hrs or 5 completions. This course is graded S/U.

1519.06 Reflective Seminar: Middle Childhood Education

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. Prereq: Admission to Middle Childhood Education Major or MEd program. Repeatable to a maximum of 10 cr hrs or 5 completions. This course is graded S/U.

1525 Diverse Literature and Comprehension - Elementary-Middle Education

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.

Mathematics Methods for Preservice Middle Childhood Teachers

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 8.

Science Methods for Preservice Middle Childhood Teachers

This course provides future middle childhood science-teachers with the skills, knowledge, and resources for providing quality learning experiences for all students. Course activities will focus on the preparation and implementation of inquiry-based instruction. This course will also cover issues such as styles of inquiry, standards-based teaching, lesson planning, assessment, and differentiation.

5270 Foundations of Reading and Literacy

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.

5275 Language and Word Study for All Learners

This course provides a detailed examination of the ways that oral and written languages work and how this supports 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. Prereq: 5468.

5602 Classroom-Based Inquiry: MA

Focuses on the history and evolving status of classroom-based inquiry and teacher action research. Students will develop a proposal for a classroom-based inquiry project, and will practice collecting and analyzing data and summarizing findings. Prereq: Not open to students with credit for 874.

1200 Introduction to Engineering Technology

Introduction to the roles available in engineering technology, professional development planning for students pursuing this degree, and exposure to common elements in engineering technology. Course work will emphasize written and verbal communication skills. Prereq: Enrollment in the BSET program.

1500 Manufacturing Processes I

History of manufacturing, tools and machines, and operations of the machine shop equipment. Opportunity to function individually and in teams, and communicate effectively to learn to work in groups to accomplish a task. The skills learned from this class are transferrable to all areas of day to day professional life which makes it valuable in other contexts.

1600 Engineering Graphics

Develop skills in graphic design and visualization through experience creating and interpreting 2D Computer Aided Drawings in AutoCAD. Explore various forms of technical graphics used in the field of Engineering Technology including facility layouts, piping and instrumentation diagrams, and electric schematics. Emphasis on utilizing technical graphics to solve Engineering Technology problems.

2300 Electrical Circuits for Engineering Technology

Fundamentals of electrical circuits, measuring & analyzing data, & troubleshooting those circuits. Analysis of Direct Current (primarily) & Alternating Current circuits (less content) & effects of different components- resistors, capacitors, inductors, and other components in electrical circuits. DC/AC circuit dynamics that will be used in studies of industrial & electronic control applications. Prereq: Math 1155 or 1172, and Physics 1231 or 1251. Not open to students with credit for ECE 2300.

3100 Material Science Lab Supplement

This course is a supplemental course to engineering materials (MatSciEn 2010) for BSET students. This course will provide hands-on exposure to common manufacturing materials' physical and chemical characteristics (like electrical and heat conductance) as well as testing methods (like stress, strain, hardness, brittleness, and microstructure). Prereq: Physics 1250 or 1260, and Math 1151 or 1154, and Chem 1210 or 1250; or permission of instructor.
1100 Intensive Writing and Reading U 4

Provides intensive practice in integrating academic reading and writing. Credit may not count toward graduation in some degree programs.

Prereq: English Placement Test score of 6. Not open to students with credit for 1110.01 (110.01), 1110.01H (110.01H), 1110.02 (110.02), 1110.02H (110.02H), 052, 060, or 110.03, or equiv.

1110.01 First-Year English Composition U 3

Practice in the fundamentals of expository writing, as illustrated in the student's own writing & in the essays of professional writers. May be available as a service learning course with five hours community service required at the Lima campus only. Prereq: EdUC 1902 (108.01) or 1902.04 (108.01), or English Placement Level 4. Not open to students with credit for 1109 (109.01 or 109.02), 1110.01 (non-DL version), 1110.01H (110.01H), 1110.02 (110.02), 1110.02H (110.02H), 1110.03 (110.03), 1167H (167H), 11.01. This course is available for EM credit. GE writing and comm course: level 1. GE foundation writing and info literacy course.

1110.03 First-Year English Composition U 3

Intensive practice in fundamentals of expository writing illustrated in the student's own writing and essays of professional writers; offered in a small class setting and linked with an individual tutoring component in its concurrent course. 1113. This course is available for EM credit only through the AP program. Prereq: 1109, or English Placement Level 5 (Placement Level 4 allowed if student requests service). Concur: 1113. Not open to students with credit for 1109.01 (110.01), 1109.01H (110.01H), 1109.02 (110.02), 1110.02H (110.02H), 1167H (167H), 11.01, or equiv. GE writing and comm course: level 1. GE foundation writing and info literacy course.

1193 Individual Studies U 1 - 4

Intensive practice in the fundamentals of expository writing.

Prereq: Permission of Director of First-Year Writing. Concur: 1110.03. Repeatable to a maximum of 6 cr hrs or 6 completions. This course is graded S/U.

2201 Selected Works of British Literature: Medieval through 1800 U 4

An introductory critical study of the works of major British writers from 800 to 1800. Prereq: 1110.01, or equiv. Not open to students with credit for 2201H. GE lit and diversity global studies course. GE foundation lit, vis and performing arts course.

2202 Selected Works of British Literature: 1800 to Present U 3

An introductory critical study of the works of major British writers of the 19th and 20th centuries. Prereq: 1110 (110.01), or equiv. Not open to students with credit for 2202H (202H) or 202. GE lit and diversity global studies course. GE foundation lit, vis and performing arts course.

2261 Introduction to Fiction U 3

Examination of the elements of fiction -- plot, character, setting, narrative, perspective, theme, etc. -- and their various interpretations; comparisons with nonfictional narrative may be included. Prereq: 1110.01 (110.01) or equiv. Not open to students with credit for 2261H (261H) or 261. GE lit course. GE foundation lit, vis and performing arts course.

2276 Arts of Persuasion U 3

Introduces students to the study and practice of rhetoric and how arguments are shaped by technology, media, and cultural contexts. Prereq: 1110.01. GE cultures and ideas course. GE foundation course.

2290 Colonial and U.S. Literature to 1865 U 3

Introductory study of significant works of U.S. literature from its Colonial origins to 1865. Prereq: 1110.01 (110.01) or equiv. Not open to students with credit for 290. GE lit course. GE foundation lit, vis and performing arts course.

2367.01 Language, Identity, and Culture in the U.S. Experience U 3

Extends & refines expository writing & analytical reading skills, emphasizing recognition of intertextuality & reflection on compositional strategies on topics pertaining to education & pop culture in America. Only one 2367 (367) decimal subdivision may be taken for credit. Prereq: 1110.01 (110.01), and Soph standing; or EM credit for 1110.01 or equiv; or a declared major in English. Not open to students with credit for 2367.01H (367.01H), 210, 267, 267H, 301, 303, or equiv. GE writing and comm: level 2 and diversity soc div in the US course.

2381 Introduction to the Black Atlantic U 3

The term 'Black Atlantic' describes encounters between Africans, Europeans, and Americans that have shaped our modern world: its politics, its literature, its art, and its economics. This class examines the literature of these encounters and relevant media in art and cinema depicting enslavement of Africans and resistance to slavery, racism, and the politics of white supremacy. Prereq: 1110. GE foundation race, ethnicity and gender div course.
1103.61 Beginning French III: Individualized DL U 1 - 4
Continued development of listening, speaking, 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: 1102.01, 1102.21, 1155.01, 1155.21, or 4 or hrs of 1102.51 or 1102.61. Not open to students with credit for 1103.01, 1103.02, 1103.21, or 4 or hrs of 1103.51 or 1103.61. Repeatable to a maximum of 4 cr hrs or 4 completions. This course is available for EM credit. GE for lang course. GE world languages course.

Geography

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), 5900 (520), 120, or AtmosSc 2940 (230). GE nat sci phy course. GE foundation natural sci 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. GE foundation soc and behavioral sci course. SS Admis Cond course.

German

1102.01 German I U 4
Continued development of German-language skills and cultural knowledge for effective communication. Emphasis on more advanced language structures, sustained interactions, reading and writing. CEFR Levels A2/B1. Not open to native speakers of this language through regular course enrollment or EM credit. Prereq: 1101.01 or 4 sem cr hrs of 1101.51 or concur: 1101.01 or 1101.51; or permission of instructor. Not open to students with credit for 1102.51. This course is available for EM credit. GE for lang course. GE world languages course.

History

2002 Making America Modern U 3
A rigorous, intermediate-level history of modern U.S. In the world from the age of industrialization to the age of globalization. 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 1152. GE historical study and diversity soc div in the US course. GE foundation historical and cultural studies course.

2202 Introduction to Medieval History U 3
Survey of medieval history from the late Roman Empire to the early sixteenth century. 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 1211. GE historical study and diversity global studies course. GE foundation historical and cultural studies 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. GE foundation historical and cultural studies course.

2700 Global Environmental History U 3
Global overview of the ecology of the human condition in past time, stressing climate change, earth systems, technology, energy, demography, and human-economic-cultural revolutions. Prereq or concur: English 1110.xx. GE historical study and soc sci human, nat, and econ resources and diversity global studies course. GE foundation historical and cultural studies course and social and behavioral sci course.

3281 Imperial Russian History, 1700-1917 U 3
Survey of Russian history from the reign of Peter the Great to the 1917 revolutions. Prereq or concur: English 1110.xx, or permission of instructor. GE historical study and diversity global studies course.

3700 American Environmental History U 3
The history of American ecosystems from the last Ice Age to the present, focuses on historical debates over the causes and consequences of environmental change. Prereq or concur: English 1110.xx, or permission of instructor. GE historical study course.

4795 Seminar in History U 3
Advanced research and readings on selected topics in History. Prereq or concur: English 1110.xx, a grade of C or above in History 2800, and any 3000-level History course; or permission of instructor.

History of Art

French

2001 Western Art I: Ancient and Medieval Worlds U 3
Examination of the history of Western Art from the third millennium BCE to the fifteenth century. GE. This course is available for EM credit. GE VPA and historical study and diversity global studies course. GE foundation lit, vis and performing arts and historical and cultural studies course.

Human Nutrition

2410 Science of Human Nutrition U 4
Basic principles of biological science, emphasizing the interaction between nutrients and physiological (including cellular) processes. Prereq: Not open to students with credit for 2210. GE nat sci bio course. GE foundation natural sci course.

Kinesiology: Health and Exercise Science

2990 Movement is Medicine: Your Rx to Health U 3
This course provides an introduction to the powerful and widespread impact of exercise on human health. The design of the course examines the "why, what and how" of exercise and includes a practical and personalized application of the material.

Kinesiology: Physical Education

2262 Coaching the Young Athlete U 3
Skills and knowledge to coach young athletes.

Kinesiology: Sport, Fitness, and Health Program

1102 First Aid and CPR U 2
Necessary skills to sustain life, reduce pain, and minimize consequences of injury/illness during an emergency. Course is designed to lead to Certification. Lab fees required. Prereq: Not open to students with credit for EduPAES 102.

1104 Stress Management for the College Student U 3
This course is designed to help students learn to identify, understand, prevent and manage stress as it occurs in everyday life. The course has two components: the lecture component will address the cognitive approach to stress management; the lab portion will allow students to experience the fundamentals of yoga and its role in stress reduction in the physical, psychological & spiritual domains.

1150.02 Lifetime Fitness and Wellness Cardiovascular Exercise Training U 2
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, 1148.05, 1149.05, 1150.01, or 1150.01.

2250 Cancer Prevention U 2
Discussion of the latest findings on avoiding cancer through lifestyle choices and assessment of one's family health history.

Landscape Architecture

2000 Introduction to Landscape Architecture U 1
Introduction to the profession of Landscape Architecture and the breadth of Landscape Architectural projects and practice. This course is graded S/U.

2600 Outlines of Landscape Architecture: Visual Literacy in the Built Environment U 3
Overview of patterns and processes of human design on land in relation to environmental, economic, and socio-cultural forces, with an emphasis on interpretation of visual landscape change. GE VPA course. GE foundation lit, vis and performing arts course.

Materials Science and Engineering

2010 Introduction to Engineering Materials U 3
Introduction to the properties (mechanical, electrical, thermal, diffusive, degradative, magnetic, optical), structure, and processing of engineering materials, including ceramic, metals, polymers, biological, and composite materials. Prereq: Physics 1250 or 1260, Math 1151 or 1161, and Chemistry 1210 or 1250 or 1910H; or permission of instructor.

Mathematics

1050 Precalculus Mathematics I U 5
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.
6 Mathematics

1075 Precollege Mathematics II  U  4
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.

1116 Excursions in Mathematics  U  3
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 subscore of 22 or higher that is less than 2 years old. Not open to students with credit for Math course above 1116, 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.

1130 College Algebra for Business  U  4
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 any course. GE foundation math and quant reasoning or data any course.

1131 Calculus for Business  U  5
Survey of calculus of one and several variables, applications to business. Prereq: A grade of C- or above in 1130, 1144, 1148, or 1150, 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 any course. GE foundation math and quant reasoning or data any course.

115 Number and Operations for Teachers  U  5
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 1103, or credit for 1074, 1075, or 104; or Math Placement Level R or above; or ACT math subscore of 22 or higher that is less than 2 years old. Not open to students with credit for 1106.

1148 College Algebra  U  4
Functions: polynomial, rational, radical, exponential, and logarithmic. Introduction to right-angle trigonometry. Applications. Prereq: A grade of C- or above in 1103, or credit for 104 or 148, or Math Placement Level N, or ACT math subscore of 22 or higher that is less than 2 years old. 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 any course. GE foundation math and quant reasoning or data any course.

1149 Trigonometry  U  3
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 any Math course numbered 150 (150) or above. This course is available for EM credit. GE quant reason math and logical any course. GE foundation math and quant reasoning or data any course.

1150 Precalculus  U  5
Functions: polynomial, rational, radical, exponential, logarithmic, trigonometric, and inverse trigonometric. Applications. 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 any course. GE foundation math and quant reasoning or data any course.

1151 Calculus I  U  5
Differential and integral calculus of one real variable. Prereq: A grade of C- or above in 1148 and 1149 or in 1144, 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 any course. GE foundation math and quant reasoning or data any course.

1154 Calculus I for Engineering Technology  U  4
Calculus I for Engineering Technology is the first in a two-course calculus sequence specifically designed for Engineering Technology. It covers standard Calculus topics including limits, differentiation, integration, optimization, and approximation with an emphasis on building mathematical intuition, problem solving ability and using appropriate technology to find solutions. Prereq: A grade of C- or above in 1148 and 1149, or grade of C- or above in 1144 or 1150, or Math Placement Level L. Not open to students with credit for 2153 or above.

1172 Engineering Mathematics A  U  5
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 1152, 1534 (153.xx), 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.

2137 Algebra and Coordinate Geometry for Teachers  U  3
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.

4500.01 General Genetics  U  3
The principles of genetics, including molecular genetics, transmission genetics of prokaryotes and eukaryotes, developmental and non-chromosomal genetics, recombinant DNA and genomics, and the genetics and evolution of populations. Taught in person. Prereq: Biology 1101, 1113, or 1113H, and 3 additional sem or hrs in Biological Sciences. Not open to students with credit for 4500, 4500.02, or 4606.

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. GE cultures and ideas course. GE foundation historical and cultural studies 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: GE cultures and ideas course. GE foundation historical and cultural studies 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. GE foundation natural sci course. NS Admis Cond course.

1231 Physics for Engineering Technology: Electricity and Magnetism  U  5
Calculus-based introduction to electricity and magnetism, for students in Engineering Technology. Prereq: 1250, 1250H, or 1260; and Math 1141 or 1151 or 1154 or above; or permission of instructor. Concur: Math 1152, 1155, 1158, 1161, 1172, 1181H, or 4181H. Not open to students with credit for 1251. This course is available for EM credit. GE nat sci phys 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 concur: Math 1141, 1151, 1154, 1156, 1161, 1181H, or 4181H. This course is available for EM credit. GE nat sci phys course. GE foundation natural sci course.

1251 E&M, Waves, Optics, Modern Physics  U  5
Calculus-based introduction to electricity and magnetism, waves, simple optics, and quantum mechanics; for students in physical sciences, mathematics, engineering. Prereq: 1250, 1250H, or 1260; and Math 1141, 1151, 1154, or above; or permission of instructor. Concur: Math 1152, 1155, 1158, 1161, 1172, 1181H, or 4181H. This course is available for EM credit. GE nat sci phys course.

2120 Introduction to Comparative Politics  U  3
Introduction to modern nation-states outside the United States: problems of state- and nation-building, representation, conflict, and making of government policy in selected countries. Prereq: Not open to students with credit for 100 or 100H. This course is available for EM credit. GE soc sci orgs and polities and diversity global studies course. GE foundation social and behavioral sci 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. GE foundation social and behavioral sci course.

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, 100H (100H) or 1100E (100E). This course is available for EM credit. GE soc sci indivs and groups and diversity soci div in the US course. GE foundation social and behavioral sci 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: 1100 or 110H and Stat 1450; Math 1120, 1130, 1148, 1149, 1150, or 1151, or equiv. or Math Placement Level M or higher; or permission of instructor.

2300 Research Methods in Psychology U 3
An overview of issues, methods, and techniques of scientific psychological research. Students must be pursuing majors or minors in Psychology. Prereq: 1100 or 1100H.

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 (100H) or 110H (103H), and English 1110.01L, 1110.02L, 1110.03L, 1110, or 111L, 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 or 1100H.

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 or 1100H. Not open to students with credit for 2367.02, 3331H, or 3331E.

3340 Introduction to Life Span Developmental Psychology U 3
Consideration of theories and research on psychological development across the lifespan; includes consideration of social policies that influence developmental outcomes. Prereq: 1100 or 1100H.

5606 High-Level Vision U G 3
Examines the perceptual processes by which humans and other animals are able to obtain knowledge about the three-dimensional environment. Prereq: A grade of C- or above in 2220, 2300, and 3310; or a grade of C- or above in 3311 and Neurosc 3300; or Neuropsych major; or Grad standing.

Russian

1101.61 Elementary Russian I (Self-Paced/Individualized Distance Learning) U 1 - 4
Introduction to Russian: development of skills in speaking, understanding, reading, and writing contemporary Russian in a cultural context. Not open to native speakers or to students with 2 or more years of high school study. Prereq: Not open to students with credit for 1101.01, or 4 credits of 1101.51. Repeatable to a maximum of 4 cr hrs or 4 completions. This course is available for EM credit. GE for large course. GE world languages course.

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. GE foundation social and behavioral sci 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. GE foundation social and behavioral sci 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 SocWk major. Not open to students with credit for 690.

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 or concur: Math 1060 or 1075 or above, or Stat 1450 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 SocWk major.

Statistics

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. 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. Concur: 4188.01 or 4188.02. Repeatable to a maximum of 10 cr 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 646.

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 646.

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. Prereq: Not open to students with credit for 1101H (101H), 1101E, 1101, 1102, 1102H (1102), 1102E, 1102. GE soc sci orgs and polies and diversity soc div in the US course. GE foundation social and behavioral sci 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.

3396 Sociology of Poverty U 3
A study of low-income peoples, especially concerning the effect of poverty on them, and their consequent social participation. GE diversity soc div in the US course.

3487 Research Methods in Sociology U 3
Introduction to sociological research techniques, methodological approaches, and relevant quantitative procedures.

4511 Juvenile Delinquency U 3
A sociological perspective in youth and crime; special attention to the magnitude of youth crime, theories, juvenile justice systems, and prevention and control efforts. Prereq: Jr or Sr standing, or permission of instructor, or department.

4610 Sociology of Deviant Behavior U 3
An examination of the nature, types, and societal reactions to deviant behavior; special emphasis on the process of stigmatization and the emergence of deviant subcultures. Prereq: Jr or Sr standing; or permission of instructor, or department. Not open to students with credit for 610.

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, 1102H.1101, 1103, 1103.01, 1113, 1155, or equiv. courses. This course is available for EM credit. GE for large course. GE world languages 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 1101H. Not open to students with credit for 1102.01, 1103.01, 1103.H.51, 1155, or equiv. courses. This course is available for EM credit. GE for large course. GE world languages course.

1103 Spanish III U 4
Continuing development of listening, reading, speaking, and writing skills in cultural contexts. Both classroom-based and 100% online sections available each semester. A grade of C- or above is required to continue to 2202. Not open to native speakers of this language through regular course enrollment or EM credit. Prereq: 1102 or 1155 or equiv. Not open to students with credit for 1103.01, 1103.H.51, 2202.01, or 2202.51. This course is available for EM credit. GE for large course.
8 Statistics

1350.01  Elementary Statistics  U  3
Introduction to probability and statistics, experiments, and sampling, data analysis and interpretation. Prereq: Math 1050, or Math Placement Level S, or permission of instructor. Not open to students with credit for GE Data Analysis course (AEDEcon 2005, AnimSci 2260, Astron 3350, Chem 2210, 2210H, ComLtr 3537, EarthSc 2245, Econ 3400, ENR 2000, Geog 2200.01, 2200.02, HCS 2260, IntStds 3400, Ling 2051, 2051H, Philos 1520, Physics 3700, PolitSci 3780, 4761, Socio 3549, Stat 1350, 1350.01, 1430, 1430.01, 1430.02, 1430.02, 1430H, 1450, 1450.01, 1450.02, 2450, 2450.01, 2450.02, 2480, 2480.01, 2480.02, 3450, 3450.01, 3450.02, 3460, 3470, 3470.01, 3470.02, 4202, 5301, or 5302). GE data anly course. GE foundation math and quant reasoning or data anly course.

1430.01  Statistics for the Business Sciences  U  4
Fundamentals of probability and statistics: Data collection and summaries, random variables, simple linear regression, two-way tables, conditional probability, sampling distributions, confidence intervals, hypothesis tests, analysis of variance. In-person recitation. Prereq: Math 1131, 1141, 1151, 1156, 1161.xx, or 1181H, or permission of instructor. Not open to students with credit for 1430, 1430.02, or BusMgt 2320. GE data anly course. GE foundation math and quant reasoning or data anly course.

2480.01  Statistics for the Life Sciences  U  3
Calculus-based introduction to the statistical analysis of biological data, including probability, common discrete and continuous distributions, experimental design, hypothesis testing, linear regression and correlation. Prereq: Math 1131, 1141, 1151, 1156, 1161.xx, or 1181H, or permission of instructor. Not open to students with credit for 2450, 2450.01, 2450.02, 2480, 2480.02, or 3202. GE data anly course. GE foundation math and quant reasoning or data anly course.

3440  Statistics in Quality  U  3
Descriptive statistics; introduction to probability; Bayes theorem; discrete and continuous random variables, expected value, probability distributions; interval estimation for means and proportions; hypotheses tests for means and proportions; least squares regression; one- and two-way anova; control charts; process capability indices. Prereq: Math 1152, 1154, 1155, 1161.xx, 1172, or equiv, or permission of instructor. Not open to students with credit for 3450, 3450.01, 3450.02, 3460, 3470, 3470.01 or 3470.02.

Women's, Gender, and Sexuality Studies

1110  Gender, Sex and Power  U  3
Introduces students to the study of gender, sex, and power. We will draw on a variety of literatures to analyze gender, race, sexuality, and other identities. We will place the study of US women in broader transnational contexts. GE foundation historical and cultural studies and social and behavioral sci and race, ethnicity and gender div course.

2215  Reading Women Writers  U  3
Study of women writers' strategies for articulating experiences and using literature as a lens for social reality and catalyst for social and political change. GE It course. GE foundation It, vis and performing arts and race, ethnicity and gender div course.