Accounting and Management Information Systems

2000 Foundations of Accounting U 3
A survey of accounting for non-business students; financial statements and analysis; accounting for assets, liabilities and owners' equity; and elements of managerial accounting. Prereq: Not open to students with credit for 2200 (211), 2300 (212), or 310.

2200 Introduction to Accounting I U 3
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.

2300 Introduction to Accounting II U 3
The uses of accounting reports by managers to make business decisions and to control business operations; focus is on the internal use of accounting information. Prereq: 2200 (211) and Econ 2001.01 (200), or equiv. Not open to students with credit for 2000 (310) or 212, or equiv. This course is available for EM credit.

3194 Group Studies U 1-6
Group study projects in selected areas in Accounting and Information Systems. Prereq: Permission of instructor. Repeatable to a maximum of 12 cr hrs or 6 completions.

3300 Cost Accounting U 3
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), and 2321 (331), or permission of instructor. Not open to students with credit for 525.

Allied Medicine

3000 Introduction to the Health Sciences Major and Career Opportunities U 1
An introduction to the Health Sciences major, tools for success, and careers in healthcare and health-related services. Prereq: Enrollment in Health Sciences Program. Not open to students with credit for 102.

3400 Health Promotion and Disease Prevention U 3
Introduction to the concepts and theories involved in health promotion and disease prevention. Prereq: Acceptance into Health Sciences program, or permission of instructor. Not open to students with credit for 640.

4189 Health Sciences Internship U 1-3
Field experience in a health care system highlighting health management, health & wellness, or other health science. Prereq: Not open to students with credit for 600. This course is graded S/U.

4300 Contemporary Topics in Health and Society U 3
Offers the opportunity to delve into the current issues and factors that are influencing and shaping both society and health systems. Prereq: 3400 (640), or permission of instructor. Not open to students with credit for 675.

5370 U.S. Healthcare Policy and Delivery System UG 3
An examination of healthcare delivery and current issues including history, policy, government regulations, legislation, politics, financing, accessibility, workforce and ethics. Prereq: Soph or Jr standing, and admission to AMP; or permission of instructor. Not open to students with credit for SFr and HMS 525.

Anthropology

2200 Introduction to Physical Anthropology U 4
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. Prereq: Biology 1101 (101) or equiv. Not open to students with credit for 200. GE nat sci bio course.

2202 Peoples and Cultures: An Introduction to Cultural Anthropology U 3
Comparative survey of traditional and contemporary peoples in the several world culture regions; culture concepts; study of selected topics. Prereq: Not open to students with credit for 202. GE soc sci indivs and groups and diversity global studies course.

2100 Visual Studies: Beginning Drawing U 3
An introduction to basic freehand drawing, exploration of a range of drawing methods, media, concepts; emphasis on drawing from observation. Prereq: Not open to students with credit for 170, 205, or 205H. This course is available for EM credit. GE VPA course.

2300 Visual Studies: Two Dimensional U 3
Basic concepts of two-dimensional art dealing with visual structure, process, content, and invention. Prereq: Not open to students with credit for 172, 206, or 206H. This course is available for EM credit. GE VPA course.

2524 Painting I U 3
Introductory painting emphasizing fundamentals and their utilization as a basis for individual development; student initially works from still life; subsequent projects increase in complexity. Prereq: 2000 (203), or 2514 (372); and HistArt 201 or 202. Not open to students with credit for 373.

2555 Photography I - Digital Camera U 3
Introduces photographic theory, practice, and aesthetics with image production, commercial lab prints and critiques. Student provides digital camera, minimum 6 mp, with full manual controls and exposure compensation available. Prereq: Not open to students with credit for 300.01, 300.02, or 300.024. GE VPA course. VSP Admis Cond course.

Art Education

1600 Art and Music Since 1945 U 3
A survey of the visual arts and music in the western world since 1945, based on live and recorded performances and exhibitions. Prereq: Not open to students with credit for 160. GE VPA course.

3900 Art & Curriculum Concepts for Teachers U 2
Problems of teaching in terms of personal knowledge about art, insight into children's art work, and understanding of elementary school curriculum. Prereq: Not open to students with credit for 600. Not open to art education teacher-candidates. Admis Cond course.

Arts and Sciences

2120 Information Search, Evaluation and Use U 2
Seven week course covers internet browsing, online information organization and management, and effective search and evaluation strategies. See: http://liblearn.osu.edu/courses. Prereq: Not open to students with credit for 120.

2121 Academic Online Research U 2
Web tools, article databases, concepts, and issues related to finding academic and scholarly information in a chosen field. See: http://liblearn.osu.edu/courses. Prereq: 1120 (120). Not open to students with credit for 121.

Biology

1101 Introductory Biology U 4
Basic principles of biology; topics include the nature of science, organismal diversity, evolution, ecology, genetics, reproduction, and cellular and structure function. Not intended students majoring in one of the biological sciences. Prereq: Not open to students with credit for Biology 101, 1113 (113), 1113H, Entomol 1101 (Entomol 101), or PlantBio 1101 (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 Biology 102. This course is available for EM credit. GE nat sci bio 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, bioenergetics, and genetics. A broad introduction to biology comprises both Biology 1113 and 1114. Prereq: Math 1130 (130), or above, or Math Placement Level L or M. Prereq or concur: Chem 1110 (101), 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.

1113H Biological Sciences: Energy Transfer and Development U 4
Exploration of biology and biological principles; evolution and the origin of life, cellular structure and function, bioenergetics, and genetics. A broad introduction to biology comprises both Biology 1113H and 1114H. Prereq: Honors standing; and Math 1149 or 1150 or above, or Math Placement Level L. Prereq or concur: Chem 1210, 1610, or 1910H, or permission of course coordinator. Not open to students with credit for 115H. GE nat sci bio course. NS Admis Cond course.
2 Biology

1114 Biological Sciences: Form, Function, Diversity, and Ecology
Exploration of biology and biological principles: evolution and specialization, 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 concurs: Chem 1110 (110), 1210 (121), 1610, or 1910H (201H), or permission of course coordinator. Not open to students with credit for 1114. This course is available for EM credit. GE nat sci bio course. NS Admis Cond course.

1114H Biological Sciences: Form, Function, Diversity, and Ecology.
Exploration of biology and biological principles: evolution and specialization, diversity in structure, function, behavior, and ecology among prokaryotes and eukaryotes. A broad introduction to biology comprises both Biology 1113H and 1114. Prereq: Honors standing, and Math 1148, 1150, or above, or Math Placement Level L. Prereq or concurs: Chem 1210 (121), 1610, or 1910H (201H), or permission of course coordinator. Not open to students with credit for 1116 or 116H. GE nat sci bio course. NS Admis Cond course.

3401 Integrated Biology
A case studies approach is used to gain a better understanding of biological concepts and principles. This course is designed for biology majors. Prereq: 1113 (113), 1114 (114), Chem 1220 (123), and Math 1150 (150), or permission of instructor. Not open to students with credit for 401.

Business Admin: Finance

3220 Business Finance
Introductory finance class which allows students to develop the skills to understand how financial managers make value-maximizing decisions for their firms. Prereq: Econ 2001.01 (200) or 2002.01 (200), and AcctMIS 2200 (211). Prereq or concurs: AcctMIS 2300 (212). Not open to students with credit for 620. This course is available for EM credit.

3500 Legal Environment of Business
An introduction to American legal institutions, sources of law, and an analysis of basic concepts of public and private law related to business decisions. For non-Business Majors. Prereq: Soph standing. Not open to students with credit for 510.

4220 Investments I
Skills for valuation and theories and applications of CAPM, APT, and efficient markets. Prereq: 3220 (620), BusMgt 2320 (330), and 2321 (331). Not open to students with credit for 722.

4222 Investments II
Investment options, forwards and futures, interest rate parity, and relevant market regulation. Prereq or concurs: 4220. Not open to students with credit for 722.

Business Admin: Management & Human Rsrs

2000 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 AEDEcon 2001 (200). Not open to students with credit for BusAdm 555.

2290 Applied Business Skills and Environment I
Introduces students to the concept of capitalism and the role of business organizations in society. Prereq: Enrollment in Fisher College of Business. Not open to students with credit for BusAdm 499 or 499.01.

2291 Applied Business Skills and Environment II
Enhancement of future business leaders' ability to resolve ethical issues and understand the ethical issues that leaders commonly face. Prereq: Soph standing, and enrollment in the Fisher College of Business. Not open to students with credit for BusAdm 499 or 499.01.

3200 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: Soph standing. Not open to students with credit for 3100 (400) or 701. Not open to students enrolled in UUS, UEXP, or ProBSBA-PR. This course is available for EM credit.

4324 Staffing: Concepts and Competencies for Acquiring Talent
Introduction to the scientific, legal, and administrative issues associated with the recruitment, hiring, and placement of individuals by organizations. Prereq: 4323 (653), or enrollment in GENBUS-BS. Not open to students with credit for 756.

4490 Strategic Management
Introduction to the concepts and analytic tools in the field of strategic management to understand the competitive position of firms. Prereq: 2290 and 2291, or BusAdm 498; and BusMgt 3200 (701), BusFin 3220 (620), 3500 (610), BusMgt 3230 (630), and BusMgt 3520 (660); and Sr standing; and enrollment in Fisher College of Business. Not open to students with credit for BusAdm 799. Not open to students in UUS, UEXP, or ProBSBA-PR.

Business Admin: Management Sciences

2320 Decision Sciences: Statistical Techniques
Examination of the use of statistical techniques in managerial decision-making processes; statistical inference, simple and multiple regression, time series. Prereq: Stat 1430 (133), or equiv, and CSE 2111 (200) or 1113, or equiv. Not open to students with credit for 330. This course is available for EM credit.

2321 Business Analytics
Examination of the use of business analytic models used in managerial decision making processes. Emphasis on formulation and interpretation of models, supported by spreadsheet based software. Prereq: Stat 1430 (133), or equiv, and CSE 2111 (200) or 1113, or equiv. Not open to students with credit for 331.

3230 Introduction to Operations Management: Improving Competitiveness in Organizations
Introduction to operations and supply chain management to improve manufacturing and service organizations; analyzing, controlling and improving resources and processes to increase productivity, generate value-added output and meet business goals. Prereq: Stat 1430 (133) or equiv. Not open to students with credit for 3130 (430) or 630.

4250 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: 3220 (330) and 3230 (330). Not open to students with credit for 710 or 731.

Business Admin: Marketing & Logistics

3250 Principles of Marketing
Presents the concepts, framework and tools of market-based management to deliver superior customer satisfaction, value and profitability. The focus of the course is on identifying, creating, delivering and measuring value creation. Prereq: Econ 2001.01 (200), or equiv. Not open to students with credit for 3150 (650) or 450. This course is available for EM credit.

3380 Logistics Management
Concepts and methods used to plan and manage logistics activities in a business environment. Understanding of the components of logistics management and tradeoffs required to manage the integrated flow of goods through the supply chain. Prereq: Econ 2001.01 (200), or equiv. Not open to students with credit for 780.

4204 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) and 4202 (758), or equiv, or enrollment in regional campus General Business Program.

4380 Advanced Logistics Management
Advanced coverage of the concepts and methods used to plan and manage logistics activities in a business environment; in-depth understanding of the components of logistics management and tradeoffs required to manage the integrated flow of goods. Prereq: 3380.

Chemistry

1100 Chemistry and Society
Terminology, methods, and principles of chemistry; examination of the roles of chemistry in our modern technological society. Prereq: Math 1050 (075 or 076), or satisfactory score on Ohio State Math Placement Test. Not open to students with credit for 1110 (101), 1210 (121), 1910H (201H), or 100, or any Chem course that uses these courses as prerequisites. GE nat sci phys course (BA in ASC only).

1110 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: Eligibility to enroll in Math 1116 (116). Not open to students with credit for 1210 (121), 1250, 1610 (161), 1910H (201H), or 102. This course is available for EM credit. GE nat sci phys course (BA in ASC only). NS Admis Cond course.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1210</td>
<td>General Chemistry I</td>
<td>U 5</td>
<td>First course for science majors, covering dimensional analysis, atomic structure, the mole, stoichiometry, chemical reactions, thermochemistry, 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 1130 (130), 1131 (131), 1148 (148), 1150 (150), or above. Not open to students with credit for 1250, 1610 (162), 1910H (202H), 122, or 125. This course is available for EM credit. GE nat sci phys course. NS Admin Cond course.</td>
</tr>
<tr>
<td>1220</td>
<td>General Chemistry II</td>
<td>U 5</td>
<td>Continuation of 1210 for science majors, covering solutions, kinetics, chemical equilibrium, solubility and ionic equilibria, qualitative analysis, thermodynamics, electrochemistry, descriptive chemistry, coordination compounds, and nuclear chemistry. Prereq: 1210, 1215, 1250, 1610 (162), 1910H (202H), or 122, 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 1620 (163), 1920H (203H), or 123. This course is available for EM credit. GE nat sci phys course. NS Admin Cond course.</td>
</tr>
<tr>
<td>1250</td>
<td>General Chemistry for Engineers</td>
<td>U 4</td>
<td>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, or 125. This course is available for EM credit. GE nat sci phys course.</td>
</tr>
<tr>
<td>2310</td>
<td>Introductory Organic Chemistry</td>
<td>U 4</td>
<td>A condensed presentation of organic chemistry organized by functional groups with an emphasis on practical applications. Prereq: 1110, 1200 (122), 1250 (125), 1620, or 1920H. Not open to students with credit for 2510 (251), 2610, or 2910H.</td>
</tr>
<tr>
<td>2510</td>
<td>Organic Chemistry I</td>
<td>U 4</td>
<td>Introduction to structure, nomenclature, physical properties, preparation and reactions of alkanes, alkenes, alkynes, 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.</td>
</tr>
<tr>
<td>2520</td>
<td>Organic Chemistry II</td>
<td>U 4</td>
<td>Continuation from 2510, including aromatic systems, carboxylic acids, carboxylic acid derivatives, amines, carbon-carbon bond-forming reactions, polymers, carbohydrates and amino acids. Prereq: 2510, 2610 (252) or 2910H (252H). Not open to students with credit for 2620 (253) or 2920H.</td>
</tr>
<tr>
<td>2540</td>
<td>Organic Chemistry Laboratory I</td>
<td>U 2</td>
<td>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 concourse: 2510, 2610 or 2910H.</td>
</tr>
<tr>
<td>2550</td>
<td>Organic Chemistry Laboratory II</td>
<td>U 2</td>
<td>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: 2540 or 2540H. Prereq or concourse: 2520, 2620 or 2920H.</td>
</tr>
<tr>
<td>1101</td>
<td>Introduction to Classical Literature</td>
<td>U 3</td>
<td>Introductory survey of the Greek and Roman achievement in literature and its contribution to Western thought; selected readings in English translation in major authors from Homer to Boethius. GE lit and diversity global studies course.</td>
</tr>
<tr>
<td>2010</td>
<td>Classical Background of Scientific Terminology</td>
<td>U 3</td>
<td>An introduction to the Greek and Latin roots of modern scientific terminology, especially medical and pharmaceutical terminology. This is an online-based course. In-person sessions include first-day orientation, mid-term, and the final exam. Prereq: Not open to students with credit for Classics 210.</td>
</tr>
<tr>
<td>2201</td>
<td>Classical Civilization: Greece</td>
<td>U 3</td>
<td>A survey of ancient Greek civilization, concentrating upon important facets of literature, history, art, and archaeology. Prereq: Not open to students with credit for Classics 224. GE cultures and ideas and diversity global studies course.</td>
</tr>
<tr>
<td>2204</td>
<td>Medicine in the Ancient World</td>
<td>U 3</td>
<td>An introduction to the theory and practice of medicine in ancient Greece and Rome. Prereq: Not open to students with credit for Classics 230. GE cultures and ideas and diversity global studies course.</td>
</tr>
<tr>
<td>2220</td>
<td>Classical Mythology</td>
<td>U 3</td>
<td>Personalities and attributes of the Greek and Roman gods and goddesses, their mythology and its influence on Western culture. Prereq: Not open to students with credit for Classics 222. GE lit and diversity global studies course.</td>
</tr>
<tr>
<td>3102</td>
<td>Greek and Roman Drama</td>
<td>U 3</td>
<td>Study of Greek and Roman drama based on extensive readings in English translation of the plays of such authors as Sophocles, Euripides, Menander, Plautus, or Seneca. Prereq: Not open to students with credit for Classics 302.</td>
</tr>
<tr>
<td>1100</td>
<td>Communication in Society</td>
<td>U 3</td>
<td>Role of communication in society; forms, strategies, theories and issues; interpersonal, group, organizations, public and mass communication. Prereq: Not to open to students with credit for 200. GE soc sci indivs and groups course.</td>
</tr>
<tr>
<td>1101</td>
<td>History of Communication</td>
<td>U 3</td>
<td>History of human communication from the beginning of spoken and written communication to modern mediated and mass communication. Prereq: Not open to students with credit for 101. GE soc sci indivs and groups course.</td>
</tr>
<tr>
<td>2367</td>
<td>Persuasive Communication</td>
<td>U 3</td>
<td>Principles of persuasion as reasoned discourse. Prereq: Soph and above, or English 110 or equiv. Not open to students with credit for 2367H (267H) or 2367. GE writing and comm course: level 2.</td>
</tr>
<tr>
<td>2105</td>
<td>Literature and Ethnicity</td>
<td>U 3</td>
<td>Study of relationships between literature and ethnicity; analysis of concepts of ethnicity as represented in literature and film of diverse cultures and historical periods. Prereq: English 1110 (110) or equiv. Not open to students with credit for 205. GE lit and diversity soc div in the US course.</td>
</tr>
<tr>
<td>2370</td>
<td>Introduction to Comparative Religion</td>
<td>U 3</td>
<td>Introduction to the academic study of religion through comparison among major traditions (Judaism, Christianity, Islam, Hinduism, Buddhism, etc.) and smaller communities. Prereq: English 1110 (110) or equiv. Not open to students with credit for 270 or 2370H (270H). GE cultures and ideas and diversity global studies course.</td>
</tr>
<tr>
<td>1110</td>
<td>Introduction to Computing Technology</td>
<td>U 2</td>
<td>A course of general interest giving experience with personal computer software, e.g., word processors and spreadsheets; provides fundamental computer literacy; neither teaches nor requires programming. Prereq: Not open to students with credit for 1111 (101), 1113, or 100.</td>
</tr>
<tr>
<td>1111</td>
<td>Introduction to Computer-Assisted Problem Solving</td>
<td>U 3</td>
<td>Problem solving techniques productivity software; spreadsheets, formulas, conditional logic, relational databases, relational algebra; word processing; data presentation; graphics. Prereq: Not open to students with credit for 1112 (105), 1113 (101), or 200. GE quant reason math and logical anly course.</td>
</tr>
<tr>
<td>1211</td>
<td>Computational Thinking in Context: Images, Animation, and Games</td>
<td>U 3</td>
<td>Introduction to computational thinking, focusing on problem solving and programming concepts and skills needed to manipulate digital images and to create interactive graphics, animations, and games; creativity and imagination encouraged. Prereq: Not open to students with credit for 203 or 204.</td>
</tr>
<tr>
<td>1212</td>
<td>Computational Thinking in Context: Mobile Applications</td>
<td>U 3</td>
<td>Introduction to computational thinking, focusing on problem solving and programming concepts and skills needed to develop applications for mobile platforms; creativity and imagination encouraged.</td>
</tr>
<tr>
<td>1222</td>
<td>Introduction to Computer Programming in C++ for Engineers and Scientists</td>
<td>U 3</td>
<td>Introduction to computer programming and to problem solving techniques using computer programs with applications in engineering and the physical sciences; algorithm development; programming lab experience. Concour: Math 1151 or 1181. Not open to students with credit for 202, Engr 1281.01, or 1281.02. This course is available for EM credit. Cross-listed in Engr.</td>
</tr>
</tbody>
</table>
4 Computer Science and Engineering

1223 Introduction to Computer Programming in Java U 3
Introduction to computer programming and to problem solving techniques using computer programs; programming lab experience.
Prereq: Not open to students with credit for 201. This course is available for EM credit.

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 (130) or above. Not open to students with credit for 1111 (101), 1112 (105), or 200. This course is available for EM credit. GE quant reason math and logical only course.

Consumer Sciences

2910 Consumer Problems and Perspectives U 3
Study of common imperfections in the market which manifest themselves in safety, fairness, quality, information and education concerns for consumers.
Prereq: Not open to students with credit for CSCFMFNS 243. GE soc sci orgs and polities course.

2990 Professional Development U 1
The professional: Overview of the internship and job search process, networking, involvement in professional organizations and continued development.
Prereq: Soph standing or above, and enrollment in a ConSci major (CSCFFS, CSFRSt, CSHPmg). Not open to students with credit for 585. This course is graded S/U.

3191 Internship U 3
Supervised practical experience at a department approved internship site related to the student's selected major. Includes an investigation and analysis of assigned problems and documentation of experience.
Prereq: CS major: Consumer and Family Financial Services, Fashion and Retail Studies, Hospitality Management, 3980 (595), 2.0 CPRHR. Not open to students with credit for ConSci 589.02, CSFarRMS 289, CSFarRMS 589, CSHPMG 570, CSHPMG 571. Repeatable to a maximum of 12 cr hrs. This course is graded S/U.

3910 Consumer Service and Satisfaction U 3
Provides students with an intellectual and hands-on understanding of the key consumer service management and consumer satisfaction theories and practices that are relevant in service sectors.
Prereq: Not open to students with credit for 310.

3930 Consumer Decision-Making I U 3
Contemporary consumer behavior theories and decision-making processes with implications for consumers, marketers, policy makers and managers in a global economy.
Prereq: Sophomore standing or higher. Not open to students with credit for 543.

3940 The Multicultural Consumer: Methods of Data Analysis U 3
Application of marketing research and statistical analysis using spreadsheet applications to examine multicultural consumers and how diversity impacts consumption, the workplace, and retailer/marketplace responses.
Prereq: Stat 1350 (135), 1430 (133), or 1450 (145). Not open to students with credit for 340.

Consumer Sciences: Consumer&Family Financial Servs

2260 Family Financial Management U 3
The management of family financial resources; topics include financial planning and budgeting, insurance, credit, and savings and investments.
Prereq: Not open to students with credit for CSCFMFNS 260.

3260 Family Financial Management: Theory and Practice U 3
Introduction to the practice and profession of family financial planning process, emphasizing the data collection, communication, and technical skills required of the financial planner.
Prereq: CSCFFS 2260 (CSCFMFNS 260). Not open to students with credit for CSCFMFNS 359 or CSFMFNS 393.

3270 Families in Business U 3
Students explore family business topics such as family dynamics, conflict, gender, ethnicity; and relative to the business formation: growth, strategic management, professionalization and succession.
Prereq: Soph standing or above. Not open to students with credit for CSCFMFNS 567.

4150 Quantitative Methods in Consumer Sciences U 3
Application of data analysis to facilitate decision making with respect to consumer sciences.
Prereq: ConSci 3940 (340), and Stat 133, 135, or 145, and CSE 101, 200, or 201. Not open to students with credit for CSCFMFNS 644.

4260 Family Tax Planning U 3
Analyze and evaluate financial decisions by families at various points in family life cycle, apply economic principles and understanding of basic tax policy to family financial decisions.
Prereq: CSCFFS 3260 (CSCFMFNS 359), and a grade of B- or above in 2260 (260). Not open to students with credit for CSCFMFNS 560.

4270 Retirement Planning and Employee Benefits U 2
Evaluation of retirement plans and employee benefits with consideration of the interwoven factors of Social Security, pension, private savings, and health insurance.
Prereq: CSCFFS 3260 (CSCFMFNS 359). Not open to students with credit for CSCFMFNS 561 or CSFMFNS 561.

4280 Intergenerational Resource Management U 2
Key topics in planning for transfer of family estate, focusing on strategies that conserve family wealth while being consistent with family financial goals.
Prereq: CSCFFS 3260 (CSCFMFNS 359). Not open to students with credit for CSCFMFNS 568.

5130 Solutions to Consumer Problems U G 3
Consumer problems are defined and characterized using an economics approach. Private and public solutions to consumer problems are then examined and evaluated.
Prereq: ConSci 3940 (340), 2910 (243), and Econ 200. Not open to students with credit for CSCFMFNS 443 or CSFMFNS 443.

Earth Science

1100 Planet Earth: How It Works U 4
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 EarthSci 100 or GeoSci 100. This course is available for EM credit. GE nat sci phyx course. NS Admis Cond Course.

1110H Honors History of Life on Earth: Global Change in the Biosphere U 3
3.5 billion years of biosphere global change; introduction to major evolutionary and extinction events; processes responsible for change; and biosphere, atmosphere, and lithosphere interrelationships.
Prereq: Honors standing, or permission of instructor. Not open to students with credit for EarthSci 110, 110H, GeoSci 110, or 110H. GE nat sci phyx course. NS Admis Cond course.

1121 The Dynamic Earth U 4
Plate tectonics; rock forming processes; climate change; energy resources.
Prereq: Math 1075 (104) or above. Not open to students with credit for EarthSci 121 or GeoSci 121. This course is available for EM credit. GE nat sci phyx course. NS Admis Cond course.

Economics

2001.01 Principles of Microeconomics U 3
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 200, 200H, or 2001.02, or 2001.03H, or AEDEcon 2001 (200). This course is available for EM credit. GE soc sci human, nat, and econ resources course. SS Admis Cond course.

2001.02 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, 201H). This course is available for EM credit. GE soc sci orgs and polities course.

4001.01 Intermediate Microeconomic Theory U 3
Theory of consumer behavior; theory of the firm; costs and production; factor price determination; general equilibrium.
Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201, 201H), or 2002.03H (201H), or equiv. Not open to students with credit for 4001.02 or 4001.03 (501.01 or 501.02).

4002.01 Intermediate Macroeconomic Theory U 3
Analysis of the determinants of national output; income and employment levels; theory of economic growth and progressive equilibrium in an economy.
Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201, 201H), or 2002.03H, or equiv. Not open to students with credit for 4002.02 (502.01, 502.02), and 4002.03H.

4200 Money and Banking U 3
Organization, operation, and economic significance of our monetary and banking system; special reference to current conditions and problems. Students intending to take 5200 are encouraged to take it instead.
Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201, 201H), or 2002.03H (201H), or equiv. Not open to students with credit for 520 or 520H (520H).

4800 Labor Economics and Industrial Relations U 3
Survey of the field of labor economics; trade unionism, collective bargaining; wage determination, employment, unemployment; labor legislation. Students planning on taking 5850 are encouraged to take it instead.
Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), or equiv. Not open to students with credit for 5850 (585) or 580.

Education: Educational Policy and Leadership
Education: Educational Policy and Leadership 5

1191.01  Volleyball I  U  1
Introduction to power volleyball.  
Prereq: Not open to students with credit for 1191.01.

1191.02  Volleyball II  U  1
Continuation of power volleyball fundamental skill perfection and game strategies woven to produce an intermediate playing experience.  
Prereq: 1191.01 or equiv. Repeatable to a maximum of 3 cr hrs.

1196.01  Varsity Squads: Baseball  U  2
Participation as a player on an OSU varsity squad.  
Prereq: Must be a member of the OSU varsity baseball squad. Repeatable to a maximum of 10 cr hrs or 10 completions. This course is graded S/U.

1196.02  Varsity Squads: Basketball  U  2
Participation as a player on an OSU varsity squad.  
Prereq: Must be a member of the OSU varsity basketball squad. Repeatable to a maximum of 10 cr hrs or 10 completions. This course is graded S/U.

1196.07  Varsity Squads: Golf  U  2
Participation as a player on an OSU varsity squad.  
Prereq: Must be a member of the OSU varsity golf squad. Repeatable to a maximum of 10 cr hrs or 10 completions. This course is graded S/U.

Education: Physical Activity and Ed Services

1144.01  Basketball Women  U  1
Skill and strategy necessary for playing basketball.  
Prereq: Limited to women only. Not open to students with credit for 144.01.

1144.02  Basketball Men  U  1
Skill and strategy necessary for playing basketball.  
Prereq: Limited to men only. Not open to students with credit for 144.02.

1145.01  Bowling I  U  1
This course utilizes an actual bowling alley for the teaching lab. The development of a life-time skill is the primary objective for this course. The skill of bowling, as well as scoring-keeping, basic courtesies and safety will be taught. Skill and knowledge will be stressed so that through participation of bowling activities there will be enjoyment and competition.  
Prereq: Not open to students with credit for 145.01.

1145.02  Bowling II  U  1
The development of a life-time skill is the primary objective for this course. The skill of bowling, as well as scoring-keeping, basic courtesies and safety will be taught. Skill and knowledge will be stressed so that through participation of bowling activities there will be enjoyment and competition.  
Advanced shot making, ball rolling, and tournament setup will be learned.  
Prereq: Not open to students with credit for 145.02.

1147  Principles of Fitness and Wellness  U  1
Students will study principles of fitness and wellness.  
Concur: 1148.01, 1148.02, 1148.03, 1148.04, 1148.05, 1148.06, 1148.07, or 1148.08. Not open to students with credit for 147.

1148.01  Conditioning Activities: Circuit Training  U  1
Students will participate in circuit training which combines strength and cardiovascular endurance activities.  
Prereq: 1147. Not open to students with credit for 1148.02, 1148.03, 1148.04, 1148.05, 1148.06, 1148.07, 1148.08 or 148.01.

1148.05  Conditioning Activities: Cardio Exercise Training  U  1
Students will participate in a progressive cardiovascular exercise training program that will utilize popular stationary equipment including treadmills, elliptical machines, cycles, and rowing machines.  
Concur: 1147. Not open to students with credit for 1148.01, 1148.02, 1148.03, 1148.04, 1145.06, 1145.07, 1145.08 or 148.05.

1152.01  Social Dance I Women  U  1
Introduction to basic steps and variations of selected dances such as the foxtrot, waltz, and swing. Limited to women only.  
Prereq: Not open to students with credit for 152.01.

1152.02  Social Dance I Men  U  1
Introduction to basic steps and variations of selected dances such as the foxtrot, waltz, and swing. Limited to men only.  
Prereq: Not open to students with credit for 152.02.

1156  Flag Football  U  1
Fundamental skills of flag football.  
Prereq: Not open to students with credit for 156.03.

1157.01  Golf I  U  1
Introductory skills and knowledge preparatory to course play with emphasis on driving, putting, and chipping.  
Prereq: Not open to students with credit for 157.01.

1157.02  Golf II  U  1
Continuation of 1157.01 with emphasis on introduction to course play.  
Prereq: 1157.01 or equiv. Repeatable to a maximum of 3 cr hrs.

Education: Teaching and Learning

2189  Field Experience  U  1-4
Professional service with children or youth in a school or community agency.  
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 15 completions. This course is graded S/U.

2367  Education, Society and Writing  U  3
Designed to help students reflect critically, both orally and in writing, on the social, political, and cultural contexts that influence education in today’s society.  
Prereq: A GE level 1 writing course. Not open to students with credit for 607. GE writing and comm course: level 2.

3160  Elementary Education: Child Guidance  U  3
Designed to develop an understanding of child growth and development in order to foster appropriate classroom instruction.  
Prereq: Not open to students with credit for 460.
6. Education: Teaching and Learning

3356 Literature for Adolescents U 3
Literature for individual, group, and whole-class reading in junior and senior high schools; interest factors and literary values as criteria for selection; bibliographic aids.
Prereq: Not open to students with credit for 656. GE lit course.

4174 Family Participation in Early Childhood School Programs: General Student Body U 3
The purposes and importance of family involvement in early childhood school programs, types of programs, resources, methods, and curricula.
Prereq: Not open to students with credit for 674.07.

4189 Advanced Field Experience U 1-4
Directed field experience emphasizing appropriate teaching strategies for different school age children and settings.
Prereq: Admission to appropriate teacher education program. Repeatable to a maximum of 12 cr hrs or 3 completions.

5005 Equity and Diversity in Education U G 3
Focuses on issues of diversity, equity, teacher beliefs, and multicultural education. Emphasis is placed on the roles of identity and lived experience and its influences on approaches to teaching and learning in educational settings.
Prereq: Not open to students with credit for 615.

5101 Teaching and Learning with Drama: Introduction U G 3
Introduction to the use of drama and social imagination in education.
Prereq: Jr or Sr standing with some field experience, or experienced teacher. Not open to students with credit for 633. Repeatable to a maximum of 6 cr hrs.

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: Enrollment in Early Childhood teaching licensure program, or permission of instructor.

5108 Teaching and Learning of Mathematics in Grades Pre-K - 3 U G 2-3
Prepares preservice teachers with knowledge, skills of, and ability to use standards, learning theories, pedagogies, assessment, and technology for the teaching and learning of Pre-K - 3 early childhood mathematics in a diverse classroom.
Prereq: Admission to Early Childhood teaching licensure program, or permission of instructor.

5109 Teaching and Learning of Mathematics in Grades Pre-K - 3, Part II U G 2
Prepares preservice teachers with knowledge, skills of, and ability to use standards, learning theories, pedagogies, assessment, and technology for the teaching and learning of kindergarten - 3rd mathematics in a diverse classroom.
Prereq: Enrollment in Early Childhood teaching licensure program, or permission of instructor.

5110 Classroom Communities and Issues of Guidance U G 3
A classroom as communities framework to support teaching and learning and issues of guidance.
Prereq: Not open to students with credit for 810.

5123 Early Childhood Pedagogy U G 2
Pedagogy 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.

5129 Teaching and Learning of Science in Grades Pre-K - 3, Part I U G 2-3
Exploration of contemporary alternatives in early childhood science education and the development of knowledge and skills for teaching and learning in grades Pre-K - 3, with a focus on preschool and kindergarten.
Prereq: Enrollment in Education major or Master in Education. Not open to students with credit for 729.

5130 Teaching and Learning of Science in Grades Pre-K - 3, Part II U G 2
Facilitates an understanding of pedagogies, research, and inquiry approaches to further meet state and national science standards in grades Pre-K - 3.
Prereq: 5129 (729). Not open to students with credit for 743.

5137 Teaching and Learning of Social Studies Grades Pre-K - 3 U G 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.

5174 Family Participation in Early Childhood School Programs U G 3
The purposes and importance of family involvement in early childhood school programs, types of programs, resources, methods, and curricula.
Prereq: Education pre-major or admission to licensure program. Not open to students with credit for 674.

5189 Planned Field Experience U G 1-15
Planned field experience under supervision in a P-12 classroom.
Prereq: Permission of instructor. Repeatable to a maximum of 30 cr hrs or 4 completions. This course is graded S/U.

5191 Supervised Student Teaching Internship U G 3-15
Student teaching internship in a P-12 classroom where students assume major teaching responsibilities under the guidance of a cooperating teacher and university supervisor.
Prereq: Permission of instructor. Repeatable to a maximum of 30 cr hrs or 2 completions.

5195 Reflective Seminar U G 1-4
Seminar held in conjunction with field experience or student teaching internship. The goals are to process, reflect upon, and enhance benefits of the school experiences.
Prereq: Admission to major in Education or Master in Education. Repeatable to a maximum of 10 cr hrs or 5 completions. This course is graded S/U.

5220 Foundations of Middle Childhood Teaching and Learning U G 3
Introduces the foundations and major concerns in middle childhood education using contemporary research, scholarship, and practice, and exploring traditional and newer course materials.
Prereq: Not open to students with credit for 601 and 603.

5225 Reading Multicultural Literature Across Middle Childhood Classrooms U G 3
Engaging reading strategies for middle childhood students focusing on fiction and non-fiction that represents diverse cultures and develops understandings of content areas.

5226 Literacy, New Media, and Creative Pedagogies for Middle Childhood Classrooms U G 3
Focuses on active and creative approaches to literacy education (including visual and performing arts) that draw on new media and are particularly useful in middle childhood classrooms.
Prereq: Not open to students with credit for 854.

5230 Language Arts Methods for Preservice Middle Childhood Teachers U G 3
Preservice teachers study methods for teaching middle childhood students' reading and writing. They explore the significance of students' interests, language, and communities to their knowledge and meaning-making of the Language Arts.
Prereq: Not open to students with credit for 706.

5231 Mathematics Methods for Preservice Middle Childhood Teachers U G 3
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.
Prereq: Not open to students with credit for 709.

5275 Science Methods for Preservice Middle Childhood Teachers U G 3
Prospective teacher candidates will study and apply 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.
Prereq: Not open to students with credit for 719.

5280 Social Studies Methods for Preservice Middle Childhood Teachers U G 3
Preservice teachers study planning, teaching and assessing of students' learning of social studies education, emphasizing the value of using effective and diverse teaching strategies and meaningful learning activities appropriate for grades 4-9.
Prereq: Not open to students with credit for 738.

5339 Evaluation and Instructional Decision-Making in Literacy U G 3
Assessment instruments and processes to determine students' abilities and needs and instructional strategies to meet these needs as useful to early and/or middle childhood teachers are explored.
Prereq: Enrollment in Early or Middle Childhood B.S. Ed. or Master of Education program. Not open to students with credit for 705 or 739.

5453 Critical Literacy in Content Area Classrooms U G 3
Teaches teachers to provide the support many students need throughout their schooling to develop their literacy skills in content areas; recognizing that learning the discourses of various fields and genres is a life-long endeavor.
Prereq: Not open to students with credit for 853.

5468 Reading Foundations U G 3
Introduction to basic concepts about the reading process, learning to read, social/cultural factors affecting literacy development and effective literacy instruction.
Prereq: Early Childhood, Middle Childhood and Intervention Specialists must take 2368. Not open to students with credit for 668.
### Education: Teaching and Learning

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2201</td>
<td>Selected Works of British Literature: Origins to Present</td>
<td>3</td>
<td>An introductory survey of British literature from Old English to presenting representative works, authors, and topics. English 2201 (201) is required of non-honors English majors. Prereq: 1110.01 (110.01), or equiv. Not open to students with credit for 2210H (210H), 201, 202, or 202H. GE lit course and diversity global studies course.</td>
</tr>
<tr>
<td>2220</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
<td>Study of selected plays designed to give an understanding of drama as theatrical art and as an interpretation of fundamental human experience. Prereq: 1110.01 (110.01), or equiv. Not open to students with credit for 2220H (220H) or 201. GE lit and diversity global studies course.</td>
</tr>
<tr>
<td>2260</td>
<td>Introduction to Poetry</td>
<td>3</td>
<td>Designed to help students understand and appreciate poetry through an intensive study of a representative group of poems. Prereq: 1110.01 (110.01) or equiv. Not open to students with credit for 2260H (260H) or 261. GE lit course.</td>
</tr>
<tr>
<td>2261</td>
<td>Introduction to Fiction</td>
<td>3</td>
<td>Examination of the elements of fiction – plot, character, setting, narrative, perspective, theme, etc. – and their various interactions; 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.</td>
</tr>
<tr>
<td>2263</td>
<td>Introduction to Film</td>
<td>3</td>
<td>Introduction to methods of reading film texts by analyzing cinema as technique, as system, and as cultural product. Prereq: 1110.01 (110.01) or equiv. Not open to students with credit for 2263. GE VPA course.</td>
</tr>
<tr>
<td>2265</td>
<td>Writing of Fiction I</td>
<td>3</td>
<td>Practice in the writing of fiction: analysis and discussion of student work, with some attention to general methods of fiction and the publishing situation. Prereq: 1110.01 (110.01) or equiv. Not open to students with 10 qr or hrs for 265. Repeatable to a maximum of 6 cr hrs.</td>
</tr>
<tr>
<td>2271</td>
<td>Introduction to English Language Study</td>
<td>3</td>
<td>An introduction to the grammar, history, and social and regional dialects of the English language. Prereq: 1110.01 (110.01) or equiv. Not open to students with credit for 4570 (570), 6760 (760), 271, 669, 6671, or Linguist 601. GE cultures and ideas course.</td>
</tr>
<tr>
<td>2275</td>
<td>Thematic Approaches to Literature</td>
<td>3</td>
<td>An introduction to literature through the examination of a major theme as treated in different genres and periods; topic varies by semester. Prereq: 1110.01 (110.01) or equiv. Not open to students with 10 qr or hrs for 275. Repeatable to a maximum of 6 cr hrs. GE lit course.</td>
</tr>
<tr>
<td>2282</td>
<td>Introduction to Queer Studies</td>
<td>3</td>
<td>Introduces and problematizes foundational concepts of the interdisciplinary field of queer studies, highlighting the intersections of sexuality with race, class, and nationality. Prereq: 1110.01 (110.01) or equiv. Not open to students with credit for 2282 or WGSSt 2282 (282). GE cultures and ideas and diversity soc div in the US course. Cross-listed in WGSSt.</td>
</tr>
<tr>
<td>2290</td>
<td>Colonial and U.S. Literature</td>
<td>3</td>
<td>An introductory study of significant works of U.S. literature from its colonial origins to the present, treating the development of literary history, literary forms and themes, and intellectual and social contexts. Prereq: 1110.01 (110.01) or equiv. Either 2290 (290) or 281 is required of non-honors English majors. Not open to students with credit for 2290 (290), 2290H, or 291. GE lit course.</td>
</tr>
<tr>
<td>2367.01</td>
<td>Language, Identity, and Culture in the U.S. Experience</td>
<td>3</td>
<td>Extends &amp; refines expository writing &amp; analytical reading skills, emphasizing recognition of intertextuality &amp; reflection on compositional strategies on topics pertaining to education &amp; 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 (110.01) or equiv; or a declared major in English. Not open to students with credit for 2367.01H (367.01H), 210, 267, 267H, 301, 330, or equiv. GE writing and comm: level 2 and diversity soc div in the US course.</td>
</tr>
<tr>
<td>2367.02</td>
<td>Literature in the U.S. Experience</td>
<td>3</td>
<td>Discussion &amp; practice of the conventions, practices, &amp; expectations of scholarly reading of literature &amp; expository writing on issues relating to diversity within the U.S. experience. Only one 2367 (367) decimal subdivision may be taken for credit. Prereq: 1110.01 (110.01) or equiv, and Soph standing; or EM credit for 1110.01 (110.01) or equiv; or a declared major in English. Not open to students with credit for 2367.01 (367.01), 210, 267, 267H, 301, 330, or equiv. GE writing and comm: level 2 and (BS only) and diversity soc div in the US course.</td>
</tr>
<tr>
<td>3304</td>
<td>Business and Professional Writing</td>
<td>3</td>
<td>The study of principles and practices of business and professional writing. Prereq: 1110.01 (110.01) or equiv. Not open to students with credit for 304.</td>
</tr>
<tr>
<td>3364</td>
<td>Special Topics in Popular Culture</td>
<td>3</td>
<td>Focused study in reading popular culture texts, organized around a single theme, period, or medium. Prereq: 1110.01 (110.01) or equiv. Repeatable to a maximum of 6 cr hrs. GE cultures and ideas course.</td>
</tr>
</tbody>
</table>
8 English

3398 Writing for English Majors U 3

Pre-req: 110.01 (110.01) or equiv, and declared major in English. Not open to students with credit for 3398H (398H), 302, 398, or 398H. Sr students must have the permission of the Director of Undergraduate Studies.

4520.01 Shakespeare U 3

Critical examination of the works, life, theater, and contexts of Shakespeare.
Pre-req: 6 cr hrs in English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs of 367 or 6 sem cr hrs of 2367 in any subject are acceptable towards the 6 cr hrs. Not open to students with credit for 520 or 520.01.

4540 Nineteenth-Century British Poetry U 3

Studies the origins of modern poetry in the years following the French Revolution in 1789 and its development throughout the nineteenth century.
Pre-req: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 540.

4553 20th-Century U.S. Fiction U 3

A study of American fiction after 1914, with emphasis on such major figures as Anderson, Fitzgerald, Hemingway, and Faulkner.
Pre-req: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 553.

4564.02 Major Author in 18th- and 19th-Century British Literature U 3

Intensive study of one of the major authors of the period.
Pre-req: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 564.02.

4564.04 Major Author in 20th-Century Literature in English U 3

Intensive study of one of the major authors of the period.
Pre-req: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 564.04.

4565 Writing of Fiction II U 3

Practice in the writing of fiction; continuation of 265/2265 at an advanced level.
Pre-req: 2265 (265) or equiv, and permission of instructor. Not open to students with 15 qtr cr hrs for 565. Repeatable to a maximum of 9 cr hrs.

4578 Special Topics in Film U 3

Examination of particular topics, themes, genres, or movements in cinema; topics may include particular directors (Hitchcock, Welles), periods (The Sixties), genres (horror).
Pre-req: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 15 qtr cr hrs for 578 or 9 sem cr hrs for 4578 or 4578H. Repeatable to a maximum of 9 cr hrs.

4583 Special Topics in World Literature in English U 3

Study of literatures written in English and produced outside of the U.S. and Britain; topics include colonial/postcolonial writing, regional literature, theoretical and historical approaches, genres. 
Pre-req: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 10 qtr cr hrs for 583. Repeatable to a maximum of 6 cr hrs.

Evolution, Ecology and Organismal Biology

2510 Human Anatomy U 3

An introduction to human anatomy; small mammal dissection.
Pre-req: 3 sem cr hrs in Biological Sciences. Not open to students with credit for 235. GE nat sci bio course. NS Admis Cond course.

2520 Human Physiology U 3

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

3310 Evolution U 4

Basic conceptual issues and processes in evolution with an emphasis on the ecological basis of adaptation and consequences of natural selection. Also available summer term at Stone Lab.
Pre-req: Biology 1114 or 1114H, or permission of instructor. Not open to students with credit for 303.01, 303.02, and 503.03.

3320 Organismal Diversity U 3

A survey of organismal diversity and the evolutionary relationships between and within major groups of organisms. Class is laboratory based.
Pre-req: 3310. Not open to students with credit for 405.01 and 405.02.

3410 Ecology U 4

Distribution and abundance of species, population dynamics, community ecology, ecosystem dynamics, and applied perspectives. Also available summer term at Stone Lab.
Pre-req: Biology 1114 or 1114H, or permission of instructor. Not open to students with credit for 503.01, 503.02, and 503.03.

French

1101.01 Beginning French I Classroom U 4

Introduction to French; development of listening, reading, speaking, and writing skills. Taught in French. Course is not open to native speakers of this language, students with EM credit, or to students with two or more years of study in this language in high school.
Pre-req: Not open to students with credit for 1101.01, 101.01, 4 cr hrs of 1101.51, or 5 qtr hrs of 101.51. This course is available for EM credit. GE for lang course. FL Admis Cond.

1102.01 Beginning French II Classroom U 4

Continued study of French; development of listening, reading, speaking, and writing skills; readings based on contemporary French Culture and literature. Taught in French. Not open to native speakers of this language or with credit through regular course enrollment, or students with EM credit.
Pre-req: 1101, or completion of 4 cr hrs of 1101.51. Not open to students with credit for 103.01 or 5 qtr cr hrs of 103.86. This course is available for EM credit. GE for lang course. FL Admis Cond course.

1155.01 Beginning French Review Classroom U 4

Intensive beginning French. Review of basic structures, vocabulary and skills. Taught in French. Closed to native speakers.
Pre-req: 2 or more years of high school French and placement in 1101.01 by EM credit only. Not open to students with credit for 1101.01 or 1101.51. This course is available for EM credit. GE for lang course. FL Admis Cond course.

Geography

1900 Introduction to Weather and Climate U 4

Introduction to the characteristics and processes of the Earth's atmosphere and their linkage with other physical systems of the planet and with human activity.
Pre-req: Not open to students with credit for 120, 120H, 2960 (220), 5900 (520), or AtmosSc 2940 (230). GE nat sci phys course.

2400 Economic and Social Geography U 3

Geographic analysis of relationships between society and economy; focusing on such issues as globalization, production and consumption, inequality and social difference.
Pre-req: Not open to students with credit for 240 or 240H. GE soc sci human, nat, and econ resources and diversity global studies course. SS Admis Cond course.

2750 World Regional Geography U 3

An examination of the human and physical geographic structure of all world regions; defined primarily at the continental scale. Examines regions in global context.
Pre-req: Not open to students with credit for 200 or 200H. GE soc sci human, nat, and econ resources and diversity global studies course. SS Admis Cond course.

Health Information Management And Systems

5620 Healthcare Reimbursement Systems UG 3

In depth analysis of U.S. healthcare payment systems and methodologies including public funded programs, managed care contracting, utilization review and impact on providers, payers, consumers, policy and information systems. Pre-req: 3520 or Allied Med 3570, or Grad standing in AMP, or permission of instructor. Not open to students with credit for 569, 620, or 660.

5635 Quality Management and Performance Improvement in Healthcare UG 3

Continuous quality management measures and tools including patient safety and satisfaction, regulatory requirements, benchmarking, causal analysis, outcomes, clinical guidelines and pathways, risk management and utilization review.
Pre-req: 3520 or 5540, or Grad standing, or permission of instructor. Not open to students with credit for 565 or 565H.

5650 Healthcare Information Systems and Technology UG 3

In depth analysis of patient, administrative and financial information systems and management practices to support systems. Emphasis on government involvement in health information technology and information exchanges.
Pre-req: 5648 or equivalent, or Grad standing in AMP, or permission of instructor. Not open to students with credit for 525 or 660.

History

1101 Latin American Civilizations to 1825 U 3

Latin American political, social, economic, and cultural history from Pre-Columbian times to independence (1825) focusing on imperialism, religion, minorities, war, and rebellion.
Pre-req or concur: English 1110.xx. Not open to students with credit for 171. GE historical study and diversity global studies course.
1102 Latin American Civilizations since 1825

Latin American political, social, economic, and cultural history from independence (1825) to the present focusing on neo-colonialism, instability, underdevelopment, militiamen, and minorities. Prereq. or conc. English 1110.xx. Not open to students with credit for 172. GE History study and diversity global studies course.

2001 Launching America

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 conc. English 1110.xx, or permission of instructor. Not open to students with credit for 1151. GE History study and diversity soc div in the US course.

2002 Making America Modern

A rigorous, intermediate-level course 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 conc. English 1110.xx, or permission of instructor. Not open to students with credit for 1152. GE History study and diversity soc div in the US course.

2080 African American History to 1877

The study of the African American experience in America from arrival through the era of Reconstruction, focusing on slavery, resistance movements, and African American culture. Prereq. or conc. English 1110.xx. Not open to students with credit for 323.01 or AfrAmSt. 2080. GE History study course. Cross-listed in AfrAmSt.

2081 African American History from 1877

The study of the African American experience in the United States from the era of Reconstruction through the present. Prereq. or conc. English 1110.xx. Not open to students with credit for 323.02 or AfrAmSt. 2081. GE History study course. Cross-listed in AfrAmSt.

2120 Revolutions and Social Movements in Modern Latin America

Latin American History from independence (1825) to the present focusing on revolutions, dictatorships, labor, political, and social movements, women, and indigenous populations. Sometimes this course is offered in a distance-only format. Prereq. or conc. English 1110.xx, or permission of instructor. GE History study and diversity global studies course.

2125 The History of Latin America through Film

Latin American history from the pre-colonial era to the present as depicted in film, including the analysis of colonialism, revolutions, society, women, and current events. Sometimes this course is offered in a distance-only format. Prereq. or conc. English 1110.xx, or permission of instructor. GE History study and diversity global studies course.

2205 Themes in the History of Western Civilization,

Prehistory to 1600

Thematic approach to the history of Western Civilization from prehistory to the early seventeenth century. Sometimes this course is offered in a distance-only format. Prereq. or conc. English 1110.xx, or permission of instructor. Not open to students with credit for 1211. GE History study and diversity global studies course.

2250 Empires and Nations in Western Europe, 1500 - Present

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 conc. English 1110.xx, or permission of instructor. GE History study and diversity global studies course.

2650 The World since 1914

Global perspective on major forces that shaped the world since 1914. Provides students with factual knowledge and a critical interpretive framework for responsible global citizenship. Prereq. or conc. English 1110.xx. Not open to students with credit for 597. GE History study course.

2651 World History before the Modern Age

A thematic approach to exploring selected major processes and events that shaped human experience between the Stone Age and 1750. Specific topics and content can vary. Sometimes this course is offered in a distance-only format. Prereq. or conc. English 1110 (110), or equiv. Not open to students with credit for 1681 (181). GE History study and diversity global studies course.

2800 Introduction to the Discipline of History

Investigation of the methods and analytical approaches historians use to understand the past. Prereq. or conc. English 1110.xx. Not open to students with credit for 398.

3011 The American Revolution and the New Nation

Analysis of the political, cultural, social, military, and economic changes that led to revolution and creation of the republic. Prereq. or conc. Any 2000-level History course, and English 1110.xx; or permission of instructor. Not open to students with credit for 577.01. GE History study course.

3016 The Contemporary U.S. since 1963

Advanced study U.S. political, economic, social, and cultural changes since 1963: political polarization; post-industrial economy/consumer economy; civil rights, feminism, environmentalism, Vietnam, détente, and globalization. Prereq. or conc. Any 2000-level History course, and English 1110.xx; or permission of instructor. Not open to students with credit for 566. GE History study course.

3017 The Sixties

Examination of postwar America’s pivot point, focusing on civil rights; liberal, radical, and conservative politics; sweeping social, cultural, and economic change; and the Vietnam War. Prereq. or conc. Any 2000-level History course, and English 1110.xx; or permission of instructor. Not open to students with credit for 309. GE History study course.

3030 History of Ohio

Survey of economic, social, political development of the geographic area that became Ohio from Native Americans to present. Prereq. or conc. Any 2000-level History course, and English 1110.xx; or permission of instructor. Not open to students with credit for 310. GE History study course.

3106 History of Mexico

History of Mexico during precolonial, colonial, and independence periods with emphasis on the 19th and 20th centuries. Prereq. or conc. Any 2000-level History course, and English 1110.xx. Not open to students with credit for 534.03. GE History study course.

3245 Research Seminar in Early Modern European History

Advanced research and writing on selected topics in Early Modern European History. Prereq. or conc. English 1110 or equiv, and course work in History at the 2000 level, or permission of instructor. Not open to students with credit for 307. GE History study course.

3570 World War II

Study of the causes, conduct, and consequences of World War II. Prereq. or conc. English 1110 or equiv, and course work in History at the 2000 level, or permission of instructor. Not open to students with credit for 511. GE History study course.

3641 Women and Gender in Early Modern Europe: 1450-1750

Investigation of the lives and experiences of early modern European women, with special focus on family life, gender, work, education, religious life, and political power. Prereq. or conc. English 1110 or equiv, and course work in History at the 2000 level, or permission of instructor. Not open to students with credit for 523. GE History study course.

4245 Research Seminar in Early Modern European History

Advanced research and writing on selected topics in Early Modern European History. Prereq. or conc. English 1110 or equiv, and course work in History at the 3000 level, or permission of instructor. Repeatable to a maximum of 6 or hrs.

Human Development And Family Science

2410 Child Development

Study of the nature, nurture, and development of children from conception through the childhood years. Prereq. Not open to students with credit for 361. GE soc sci indivs and groups course.

Human Nutrition

2210 Science of Human Nutrition

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.

3313 Food in Different Cultures

Food practices of selected peoples of the world with consideration of the existing social, cultural, and economic conditions. Class content through lecture, discussion, and guest speakers. Prereq. 2310 (310). Not open to students with credit for 313.

Mathematics

1050 Precalculus Mathematics I

Fractions and decimals, basic algebra, graphing lines, factoring, systems of equations. Prereq. 1040 (40) or 50, or Math Placement Level T, or permission of department. Not open to students with credit for any Math course above 1050 (50). This course is available for EM credit.

1075 Precalculus Mathematics II

Algebraic, radical, and radical expressions; functions and graphs; quadratic equations; absolute value; inequalities; and applications. Prereq. 1074 or 75, or a grade of C- or above in 1050, or Math Skills Assessment Level R or S. Not open to students with credit for any course above 1075, or for any quarter-system class 75 or above. This course is available for EM credit. GE quant reason basic computation course.
10 Mathematics

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. Not open to students with credit for 1152 (153) or above. GE quant reason math and logical anly course.

1125 Mathematics for Elementary Teachers I U 5
Sequence 1125-1126 involves numbers, geometry, measurement, and mathematical reasoning, for prospective elementary school teachers.
Prereq: A grade of C- or above in 1075, or credit for 1074, 75, or 104, or Math Placement Level R or above, and enrollment in Early Childhood or Special Education major; or in Middle Childhood major or pre-major with area of concentration different than Math. Not open to students with credit for 106. GE quant reason math and logical anly course.

1126 Mathematics for Elementary Teachers II U 5
Continuation of 1125: numbers, geometry, measurement, and mathematical reasoning, for prospective elementary school teachers.
Prereq: A grade of C- or above in 1125; and enrollment in Early Childhood or Special Education major, or in Middle Childhood major or pre-major with area of concentration different than Math. Not open to students with credit for 107. GE quant reason math and logical anly 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. Not open to students with credit for 1131 (132), or for any Math course numbered 1140 (150) or above. This course is available for EM credit. GE quant reason math and logical anly 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 anly course.

1144 Precalculus Transition U 4
Math 150 done in a semester: Properties and applications of rational, logarithmic, exponential, trigonometric, and inverse trigonometric functions. Introduction to complex numbers. Prereq: 148, or permission of department. Not open to students with credit for 150 or above.

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 1075, or credit for 104 or 148, or Math Placement Level N, 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.

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 1150 (150) or above. This course is available for EM credit. GE quant reason math and logical anly 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 anly 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 anly course.

1152 Calculus II U 5
Integral calculus, sequences and series, parametric curves, polar coordinates, (optional: vectors).
Prereq: A grade of C- or above in 1114, 1151, 1156, 114, 152.xx, 161.xx, or 161.01H. Not open to students with credit for any higher numbered Math class, or with credit for quarter-system Math courses numbered 153xx or above. This course is available for EM credit. GE quant reason math and logical anly course.

1165 Math for Middle School Teachers I U 5
Algebra and reasoning for middle school teachers.
Prereq: A grade of C- or above in 1148 and 1149, or grade of C- or above in 1150, or credit for 150, or Math Placement Level L; and enrollment in Middle Childhood Education major within either College of Arts and Sciences or College of Education and Human Ecology.

1166 Math for Middle School Teachers II U 5
Geometry for middle school teachers.
Prereq: C- or better in 1165, and enrollment in Middle Childhood Education major.

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, 1151, 1156, 114, 152.xx, 161.xx, or 161.01H. Not open to students with credit for 1152, 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.

2167 Calculus for Middle School Teachers U 3
Concepts of Calculus for Middle School teachers.
Prereq: A grade of C- or above in 1165, or credit for 1164 or 110; and enrollment in Middle Childhood Education major with Math as area of concentration. Not open to students with credit for 111.

2168 History of Mathematics for Middle School Teachers U 3
Historical and mathematical discussion of topics in the middle school math curriculum.
Prereq: C- or better in 2167; or credit for 111. Restricted to Middle Childhood Education majors with math as area of concentration. Not open to students with credit for 212.

Molecular Genetics

4500 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.
Prereq: Biology 1101 (101), 1113 (113), or 1113H (115H), and 3 additional sem or hrs in Biological Sciences. Not open to students with credit for 406B, 505, 500H, 605, or 606.

Music

1101.01 Beginning Piano I: Group Instruction U 2
Group instruction for students who have had no previous piano study.
Prereq: Not open to students with credit for 101.01, or Music majors. VSP Admis Cond course.

1102.01 Beginning Piano II: Group Instruction U 2
Intermediate course in piano for the non-music major.
Prereq: 1101.01 (101.01). Not open to Music majors. Repeatable to a maximum of 4 cr hrs. VSP Admis Cond course.

1121 Elementary Music Theory and Aural Training U 3
An introduction to the fundamentals of music, music reading, and aural musicianship.
Prereq: Not open to students with credit for 121. VSP Admis Cond course.

2203.01 Chorale U 1-2
A selected group of mixed voices which performs an extensive repertoire in concerts both on and off campus.
Prereq: Admission to the School of Music by audition, and permission of instructor. Repeatable to a maximum of 16 cr hrs or 8 completions. VPA Admis Cond course.

2203.03 University Chorus U 1-2
Selected choral works are studied and performed.
Prereq: Admission by audition only. Repeatable to a maximum of 16 cr hrs or 8 completions. VPA Admis Cond course.

2204.04 University Band U 1-2
Offers students an opportunity to perform symphonic band literature.
Prereq: High school instrumental experience; no formal audition required. Repeatable to a maximum of 16 cr hrs or 8 completions. VSP Admis Cond course.

2208.02 Small Ensemble: Voice U 1
Intensive study of ensemble works for voice.
Prereq: Admission by audition, or permission of instructor. Repeatable to a maximum of 12 cr hrs. VSP Admis Cond course.

2208.20 African Performing Ensemble U 1
Ensemble dedicated to performing African-derived music.
Prereq: Admission by audition, or permission of instructor. Repeatable to a maximum of 12 cr hrs. VSP Admis Cond course.

2221 Music Theory I U 2
Elements of music and musical notation; analytical concepts and terminology; fundamentals of counterpoint and melody; extensive practice through written drill and creative projects.
Prereq: Passing of theory placement test. Not open to students with credit for 221. This course is available for EM credit.

2250 Music Cultures of the World U 3
A survey of musical cultures outside the Western European tradition of the fine arts.
Prereq: Not open to students with credit for 250. GE VPA and diversity global studies course. VSP Admis Cond course.

2251 The World of Classical Music U 3
An introduction to the world of classical music and to its genres, composers, styles, societies, and historical periods. No music background is required.
Prereq: Not open to students with credit for 251 or Music majors. GE VPA and diversity global studies course. VSP Admis Cond course.
3345 Topics in Music History U 3
Topics vary; study of selected topics in music history and world music. Repeatable to a maximum of 15 or hrs. Ge VPA course.

3370 Music for Elementary Teachers U 2
Music literature and teaching aids for children, including singing, rhythmic, creative, and listening experiences, and their presentation. Prereq: Not open to students with credit for 370.

**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.

1332 Ethics in the Professions: Introduction to Engineering Ethics U 3
An examination of contemporary issues in engineering ethics in the context of major ethical theories. Prereq: Not open to students with credit for 130 or 131. Ge cultures and ideas course.

**Physics**

1106.01 Physics by Inquiry: Properties of Matter, Heat and Temperature, 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. NS Admins Cond course. Ge nat sci physical course.

1107.01 Physics by Inquiry: Circuits, Light and Optics, and Astronomy U 5
Investigation of the properties of electricity and circuits, light, optics with applications to real-world phenomena such as astronomy using the inquiry technique. Intended for non-science majors. Prereq: Not open to students with credit for 107 and 108. 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.

1201 E&M, Optics, Modern Physics U 5
Algebra-based introduction to electricity and magnetism, simple optics, overview of modern physics including special relativity and quantum mechanics. Prereq: 1200 (111). Not open to students with credit for 112. This course is available for EM credit. NS Admins Cond course. Ge nat sci physical course.

1250 Mechanics, Thermal Physics, Waves U 5
Calculus-based introduction to classical physics: Newton's laws, fluids, thermodynamics, waves; for students in physical sciences, mathematics, and engineering. Prereq: 1 entrance unit of Physics or Chem. Concurs: Math 1151 (152), 1161 (161), 1181H (161H), or 4181H (1304H) or above. Not open to students with credit for 131. This course is available for EM credit. NS Admins Cond course. Ge nat sci physical course.

1251 E&M, Optics, Modern Physics U 5
Calculus-based introduction to electricity and magnetism, simple optics, modern physics including special relativity and quantum mechanics; for students in physical sciences, mathematics, engineering. Prereq: 1250 (131), 1250H (131H), or 1260, and Math 1151 (152) or above; or permission of instructor. Concurs: Math 1152 (153), 1161, 1172, 1181H, or 4181H. Not open to students with credit for 132. This course is available for EM credit. Ge nat sci phys course. NS Admins Cond 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 system. 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.

1165 Introduction to Politics U 3
Introduction to politics and political science: power, democracy and authoritarianism, political participation, the state, political institutions, subfields of the discipline, and political research methodology. Prereq: Not open to students with credit for 165 or 165H. GE soc sci orgs and polities course.

4126 Ohio Politics U 3
Examination of state politics with special reference to Ohio. Prereq: Not open to students with credit for 506.

**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, 100H, or 100E. This course is available for EM credit. Ge soc sci indivs and groups and diversity soc div in the US course.

1100H 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: Honors standing, or permission of instructor. Not open to students with credit for 1000 (100), 1000E (100E), or 105H. 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: 1100 (100) or 1100H (100H), and Stat 1450 (145), Math 1148 (148), Math 1149, 1150 (150), 1251.x (151), or 152, or equiv, or Math Placement Level M or higher; or permission of instructor. Not open to students with credit for 220, 220H, 320, or 320H.

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 (100) or 1100H (100H). Not open to students with credit for 300.

2367 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 1100.01, 1100.01H, 1100.02, 1100.02H, 1110.03, 110, or 111, or equiv, and Soph standing or above. Not open to students with credit for 3325 (325), 3325H (325H), or 387.01. GE writing and comm: level 2 and soc sci indivs and groups course.

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 (100) or 1100H (100H). Not open to students with credit for 331.

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 331, 331H, or 331E.

3340E Introduction to Life Span Developmental Psychology U 3
A survey of developmental psychology including some phylogenetic perspective. Prereq: Honors standing, and 1100 (100) or 1100H (100H), or permission of instructor. Not open to students with credit for 340, 340E, or 340E.

3530 Theories of Personality U 3
Major theoretical and research orientations in the study of normal and abnormal personality development, with a focus on personality processes. Prereq: 1100 (100) or 1100H (100H). Not open to students with credit for 530.

3550 Psychology of Childhood U 3
Introduction to the major phenomena, methods, theories, and findings of developmental psychology, especially as they apply to infancy and childhood. Prereq: 1100 (100) or 1100H (100H). Not open to students with credit for 550 or 550H.

3551 Psychology of Adolescence U 3
An examination of the biological, psychological, and social aspects of normal adolescent development. Prereq: 1100 (100) or 1100H (100H). Not open to students with credit for 551.
Survey of classic and contemporary theory and research on social psychological study of the self; diverse approaches, and various gender, ethnic, and cross-cultural perspectives. Prereq: 3525 (325), 3525H (325H), 2567 (367), or 3535 (375). Not open to students with credit for 475.

Training in experimental and quantitative methods in cognitive psychology; laboratory experiments include such topics as memory, perception, and attention. Prereq: 3202 (302), 3310 (310), or 3312 (312), and 2220 (220) or 2220H (220H), and 3230 (330), and enrollment in Psych major. Not open to students with credit for 4520 (520) or 510.

An overview of theoretical and practical aspects of the assessment and prediction of human behavior; topics include achievement, intelligence, personality, attitudes, interests, and interpersonal relations. Prereq: 1100 (100) or 1100H (100H), and 2220 (220) or 2220H (220H). Not open to students with credit for 511 or 597.02.

Issues within the field of counseling psychology including assessment, counseling skills, multicultural issues, career, professional, and ethical issues. Prereq: 3311 (311), 3311H (311H), 3315E (315E), 3315 (315), or 3530 (530). Not open to students with credit for 540.

An examination of the origins and implications of gender differences and similarities and the role that gender plays in the interpretation of behavior. Prereq: 1100 (100) or 1100H (100H). Not open to students with credit for 543 or 543E.

Russian culture from its foundations to the 21st century through analysis of literature, film, music, visual arts, beliefs, and customs. Taught in English. Prereq: Not open to students with credit for 135 or 235. GE cultures and ideas and diversity global studies course.

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

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.

Examination of the structure of human societies, cultures, and institutions from the perspective of oppressed minority populations. Prereq: Not open to students with credit for 300. GE diversity soc div in the US course.

Foundation knowledge related to social justice in the context of social welfare in advancing human rights of all people. Prereq: MSW I standing, or permission of instructor. Not open to students with credit for 709, 710, or 711.

Conceptual framework for effective and culturally sensitive social work practice with oppressed and vulnerable populations. Prereq: MSW I standing, or permission of instructor. Not open to students with credit for 709, 710, or 711.

Examine individual and contextual development processes across the lifespan in order to understand how human behavior is impacted by risk and protective developmental factors. Prereq: MSW I standing, or permission of instructor. Not open to students with credit for 733.

Critically examines explanatory theory regarding the functioning of human service organizations, residential institutions, and communities with applications to social work assessment and intervention. Prereq: MSW I standing, or permission of instructor. Not open to students with credit for 730.01, 730.02, or 734.

Individual study projects in selected areas of social work and social welfare. Prereq: Permission of instructor. Repeatable to a maximum of 6 cr hrs or 6 completions. This course is graded SU.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000.04</td>
<td>Technical Production Practicum: Scenic Construction and Painting</td>
<td>1 U</td>
<td>Provides experience in technical production activities. Repeatable to a maximum of 6 cr hrs or 6 completions.</td>
</tr>
<tr>
<td>2000.05</td>
<td>Technical Production Practicum: Costuming &amp; Makeup</td>
<td>1 U</td>
<td>Provides experience in technical production activities. Repeatable to a maximum of 6 cr hrs or 6 completions.</td>
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<tr>
<td>2000.06</td>
<td>Technical Production Practicum: Lighting</td>
<td>1 U</td>
<td>Provides experience in technical production activities. Repeatable to a maximum of 6 cr hrs or 6 completions.</td>
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<tr>
<td>2000.09</td>
<td>Technical Production Practicum: General</td>
<td>1 U</td>
<td>Provides experience in technical production activities. Prereq: Not open to students with credit for 205.</td>
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<tr>
<td>2000.11</td>
<td>Technical Production Practicum: Box Office</td>
<td>1 U</td>
<td>Provides experience in technical production activities. Repeatable to a maximum of 6 cr hrs or 6 completions.</td>
</tr>
<tr>
<td>2100</td>
<td>Introduction to Theatre</td>
<td>3 U</td>
<td>A study of the art and profession of live theatre with emphasis upon its cultural and social influences in our society. Prereq: Not open to students with credit for 210H (101H) or 100. This course is available for EM credit. GE VPA and diversity soc div in the US course. VSP Admis Cond course.</td>
</tr>
<tr>
<td>2110</td>
<td>Script Analysis</td>
<td>3 U</td>
<td>Fundamental principles for intensive study of the theatrical script as the basis for actor training, performance and production. Prereq: 2100 or 2101H. Not open to students with credit for 210.</td>
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</table>