Important Dates and Deadlines

registrar.osu.edu/registration/index.asp
Accounting and Management Information Systems

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.

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 2300 (330), 2321 (331), and BusMHR 2292 (BusAdm 499.01); or permission of instructor. Not open to students with credit for 2525.

3601 Introduction to Information Systems  U  1½
The role of information systems in capturing and distributing organizational knowledge and enhancing management decision making, process of redesigning organizations utilizing systems analysis and design, quality assurance, and change management techniques, technical foundation of information systems, including hardware, software, telecommunications, networks, and the information architecture. Prereq: Admission to BSBA program and Business Management specialization.

African American and African Studies

2251 Introduction to African Literature  U  3
An assessment of the oral prose tradition and written prose of African literature; specific emphasis placed on student reading from primary sources. GE lit and diversity global studies course. GE foundation lit, vis and performing arts course.

2281 Introduction to African-American Literature  U  3
A study of representative literary works by African-American writers from 1760 to the present. Prereq: English 1110, or equiv. Not open to students with credit for English 2281. GE lit and diversity soc div in the US course. GE foundation lit, vis and performing arts course.

Agricultural Systems Management

2305 Professional Development I  U  2
Business communications and professional development in agricultural systems management including job search strategies, informative and persuasive writing, academic planning, collaboration, project documentation and reporting, and presentations. Prereq: English 1110. Not open to students with credit for CorSysM 2305. This course is available for EM credit.

American Sign Language

1101 Elementary American Sign Language I  U  4
Students develop elementary ASL skills—receptive (listening) and expressive (speaking). American deaf culture and history introduced with an emphasis on making comparisons and connections to one's own culture. Instruction primarily in ASL. Not open to native users of ASL. Prereq: Not open to students with 2 or more years of ASL study in high school. Not open to students with credit for 101, English 101, or EduTL 101. This course is available for EM credit. GE for lang course. GE world languages course.

1102 Elementary American Sign Language II  U  4
Further development of ASL skills. Focus on talking about others. Continued exploration of American deaf culture and history. Instruction primarily in ASL. Not open to native users of ASL. Prereq: 1101 (101), English 101, or EduTL 101. Not open to students with credit for 102, English 102, or EduTL 102. This course is available for EM credit. GE for lang course. GE world languages course.

1103 Intermediate American Sign Language  U  4
Advanced development of ASL skills. Focus on talking about community. Continued exploration of American deaf culture and history. Instruction primarily in ASL. Not open to native users of ASL. Prereq: 1102 (102), English 102, or EduTL 102. Not open to students with credit for 103, EduTL 113, or SphMHR 103, or equiv. This course is available for EM credit. GE for lang course. GE world languages course.

2104 American Sign Language Conversational Discourse  U  3
This course is designed to develop conversational discourse and personal narrative skills in ASL. Students will continue the development of ASL communication skills both receptively and expressively, by expanding on ASL vocabulary and ASL grammar. These skills will allow students the ability to expand conversations in ASL beyond every day topics. Course instruction is in the target language. ASL. Prereq: A grade of C or better in 1103, or permission of department.

Anatomy

1300 SuperAnatomy  U  3
Today's pop culture includes icons from movies, television shows, and comics superheroes (including metahumans, aliens, & humans with advanced technology). The SuperAnatomy course is a 3-credit hour course that teaches basic systemic human anatomy and physiology with the help of superheroes. Lectures introduce normal human anatomy and physiology, compares superhero powers & modern technology.

2300.05 Human Anatomy  U  4
Regional study of the basic structure and terminology associated with the human body. Laboratory includes demonstrations on prosected human cadavers. Prereq: 1300, Biology 1151, 1102, 1113, or 1114; or permission of instructor; and enrollment as a Health Science student in Continuing Education (CED), University Exploration (EXP), or Arts and Sciences (ASC). Not open to students with credit for 2100.xx or 3300.xx.

Anthropology

2202 An Introduction to Cultural Anthropology  U  3
Introduction to anthropological perspectives on cross-cultural variation in human behavior and societies. Prereq: Not open to students with credit for 2202H. GE soc sci indivs and groups and diversity global studies course. GE foundation social and behavioral sci course.

Art

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

Arts and Sciences

1138.11 First-Year Seminar  U  1
Afers first-year students opportunities for contact with faculty in small group settings; introduction to academic areas, research, and frontier areas of scholarly pursuit. Prereq: Fresh standing or permission of instructor. Only one First-Year Seminar per semester allowed. Repeatable to a maximum of 2 cr hrs. This course is graded S/U.

1138.12 First-Year Seminar  U  1
Afers first-year students opportunities for contact with faculty in small group settings; introduction to academic areas, research, and frontier areas of scholarly pursuit. Prereq: Fresh standing or permission of instructor. Only one First-Year Seminar per semester allowed. Repeatable to a maximum of 2 cr hrs. This course is graded S/U.

1191 Non-Credit Internship  U  0
Internship conducted under the supervision of the employer; enrollment and evaluation coordinated by the ASC Career Services. Student is responsible for finding the internship prior to the start of the term. Requires permission to enroll Prereq: GPA 2.50 or above. Repeatable to a maximum of 4 completions. This course is graded S/U.

2120 Information Search, Evaluation and Use  U  2
This seven-week course will help you develop skills and habits that will allow you to responsibly find, consume, create, and share information online. Among these habits is the creation of a search strategy, critical evaluation of online sources, and the use of copyrighted materials. We hope you leave this course as an intentional, reflective, and critical consumer of information.

2121 For-Credit Internship  U  1 - 12
Internship conducted under the supervision of the employer; grade determined by ASC faculty member. Student must obtain the internship before the start of the term, and a signed learning agreement approved by faculty member and employer by first day. Enrollment in an academic department internship course is not permitted during the same term. Prereq: GPA 2.50 or above, and Soph standing or above. Repeatable to a maximum of 12 cr hrs or 4 completions. This course is graded S/U.

Astronomy

1142 Black Holes  U  3
The nature, formation, and discovery of black holes in the universe. Prereq: ACT Math Subscore of 22 or higher, or Math Placement Level R or better, or Math 150 (075), or permission of instructor. Not open to students with credit for 142. This course is available for EM credit. GE nat sci phy course. NS Admis Cond course.

Aviation

2000 Introduction to the Aviation Industry  U  3
Introduction to the aviation industry, including its elements, components, and structures. Topics include: aircraft, airports, airspace, a survey of industry segments and purposes, and careers and career paths.

Biochemistry


### 2 Biochemistry

**4511 Introduction to Biological Chemistry** U 4
An introductory course in biochemistry dealing with the molecular basis of structure, metabolism, genetic replication, transcription, and translation in plants, animals, and microorganisms. Prereq: Chem 1220 (123) or 1250 (125), and 2510 (252) or 2310 (231), and one semester of Biological Sciences; or permission of instructor. Not open to students with credit for 511. This course is available for EM credit.

### Biology

#### 1101 Introductory Biology U 4
Basic principles of biology: topics include the nature of science, organizational diversity, evolution, ecology, genetics, reproduction, and cellular structure and function. Not intended for students majoring in one of the biological sciences. Prereq: Not open to students with credit for 1101E, 1113 (113), 1113H (115H), 101, Entmgy 1101 (101), or MolGen 1101 (ProtBio101). This course is available for EM credit. GE nat sci bio course. GE foundation natural sci course.

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

#### 1113.01 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 1120, 1130, 1148, 1150, or above, or Math Placement Level L or M. Prereq or concour: Chem 1110, 1210, 1610, or 1910H, or permission of course coordinator. Not open to students with credit for 1113 or 1113.02. This course is available for EM credit. GE nat sci bio course. GE foundation natural sci 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 or M. Prereq or concour: Chem 1110, 1210, 1610, or 1910H, or permission of course coordinator. Not open to students with credit for 1114 or 1114.02. This course is available for EM credit. GE nat sci bio course. GE foundation natural sci course.

#### 1114.01 Biological Sciences: Form, Function, Diversity, and Ecology U 4
Exploration of biology and biological principles: evolution and speciation, diversity in structure, function, behavior, and ecology among prokaryotes and eukaryotes. A broad introduction to biology comprises both Biology 1113 and 1114. Prereq: Math 1120, 1130, 1148, 1150, or above, or Math Placement Level L or M. Prereq or concour: Chem 1110, 1210, 1610, or 1910H, or permission of course coordinator. Not open to students with credit for 1114 or 1114.02. This course is available for EM credit. GE nat sci bio course. GE foundation natural sci course.

#### 1114H Biological Sciences: Form, Function, Diversity, and Ecology U 4
Exploration of biology and biological principles: evolution and speciation, diversity in structure, function, behavior, and ecology among prokaryotes and eukaryotes. A broad introduction to biology comprises both Biology 1113H and 1114H. Prereq: Honors standing; and Math 1149, 1150, or above, or Math Placement Level L or M. Prereq or concour: Chem 1210 (121), 1610, or 1910H (201H), or permission of course coordinator. Not open to students with credit for 1114 or 1114.02. GE nat sci bio course. GE foundation natural sci course.

#### 3401 Integrated Biology U 4
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, 1114, Chem 1220, and Math 1140, or 1148 and 1149, or 1150 or above; or permission of instructor.

### Business Admin: Finance

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

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

**4200 Applications in Finance** U 3
Applications in Finance with a discussion of investment alternatives such as Money Market instruments, Stocks and Bonds and Corporate Finance issues such as Corporate Governance, Cost of Capital and Capital Budgeting. Prereq: 3220 (620), BusMgt 2320 (330), and 2321 (331). Not open to students with credit for 4210, 4211, 4212 (721), 4220, 4221, or 4222 (722).

### Business Admin: Marketing & Logistics

**3250 Principles of Marketing** U 3
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 and 2002.01 or equiv. Not open to students with credit for 3150 (650) or 450 or to students enrolled in UUSS, UExP or PreBSBA-PR.

**3380 Logistics Management** U 1½
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, or equiv., and 2002.01, or equiv. Not open to students enrolled in UUSS, UExP or PreBSBA-PR.

**4204 Marketing Projects** U 3
In this advanced marketing course students will act as a consulting team and work with a client firm on a marketing problem, produce a report and present their work. Prereq: 4201 (750), 4202 (758), and BusMHR 2292 (BusAdm 499.01), or equiv; or enrollment in regional Business Management program. Not open to students with credit for 4490.

**4380 Advanced Logistics Management** U 1½
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, and AccctMS 2200 (211), 2300 (212), and BusMGT 2220 (330), 2321 (331), 3230 (630), and BusFIN 3500 (510), 3220 (620), and BusML 3250 (650), 3380, and Sr standing in Business Administration major program. Not open to students with credit for BusAdm 799. Not open to students in UUSS, UExP, or PreBSBA-PR.

### Business Admin: Operations and Business Analytics

**3200 Decision Sciences: Statistical Techniques** U 3
Examination of the use of statistical techniques in managerial decision-making processes; statistical inference, simple and multiple regression, time series. Prereq: Math 1131 (132), or 1151 (152); and Stat 1430 (133) and CSE 1113, or 2111 (210); and Econ 2001.01 (200). Prereq or Concur: Econ 2002.01 (201). Not open to students with credit for 335. This course is available for EM credit.

**3231 Business Analytics** U 1½
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: Math 1131 (132), or 1151 (152), or equivalent; and CSE 1113, or 1111 (200); and Econ 2001.01 (200), or equivalent; and Econ 2002.01 (201), or equivalent. Not open to students with credit for 335.
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: Econ 2001.01 or 2002.01, and Stat 1430 or equiv.; or Math 1151 or 1154, and enrollment in BSET program. Not open to students with credit for 3130, or to students enrolled in USEP or PreBSSA-PR.

Six Sigma Principles

Designed to familiarize students with the Six Sigma process improvement methodology and to provide them an opportunity to practice using Six Sigma Black Belt tools. Prereq: 2320, 2321, 3230, and AcctMIS 2200, 2300, and BusMHR 2292; or 3230, ISE 2404, and Stat 3440 or equiv., and enrollment in BSET program.

Chemistry

General Chemistry for Engineers

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

General Chemistry II

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, or 1910H; and Math Placement Level L or M, or a grade of C- or above in Math 1120, 1130, 1131, 1148, 1150, or above. Not open to students with credit for 1220, 1620, 1921H, 1250, 1610, or 1910H. This course is available for EM credit. GE nat sci phsy course. GE foundation natural sci course.

Organic Chemistry I

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 1921H (203H). Not open to students with credit for 252.

Organic Chemistry II

Continuation from 2510, including aromatic systems, carbocyclic acids, carbocyclic 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.

Organic Chemistry Laboratory I

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 concour: 2510, 2610 or 2910H.

Organic Chemistry Laboratory II

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 2940H. Prereq or concour: 2520, 2620, or 2920H.

Comparative Studies

American Icons

Interdisciplinary methods in American studies; emphasis on the plurality of identities in American culture. Prereq: English 1110 (110) or equiv. Not open to students with credit for 234. GE cultures and ideas and diversity soc div course in the US course. GE foundation historical and cultural studies course.

Comparative Studies

American Icons

Interdisciplinary methods in American studies; emphasis on the plurality of identities in American culture. Prereq: English 1110 (110) or equiv. Not open to students with credit for 234. GE cultures and ideas and diversity soc div course in the US course. GE foundation historical and cultural studies course.

Communication

Medicine in the Ancient World

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.

Medicine in the Ancient World

Personalties and attributes of the Greek and Roman gods and goddesses, their mythology and its influence on Western culture. GE lit and diversity global studies course. GE foundation lit, vis and performing arts course.

Business Admin: Operations and Business Analytics

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. Concur: Math 1151, 1154, or 1161. Not open to students with credit for Engr 1281.01 or 1281.02. This course is available for EM credit.

Introduction to Computer Programming in Java

Introduction to computer programming and to problem solving techniques using computer programs; programming lab experience. Prereq: Math 1130, 1140, 1149, 1150, or 1151, or Math Placement Level L. This course is available for EM credit.

Modeling and Problem Solving with Spreadsheets and Databases

Spreadsheet and database modeling/programming concepts and techniques to solve business related problems; efficient/ effective data handling, computational analysis and decision support. Additional topics: computer concepts, networking, project integration. Prereq: Math 1130 or above, or Math Placement Level L. Not open to students with credit for 1110 or 1112. This course is available for EM credit. GE quant reason math and logical anly course. GE foundation math and quant reasoning or data anly course.

Software I: Software Components

Intellectual foundations of software engineering; design-by-contract principles; mathematical modeling of software functionality; component-based software from client perspective; layered data representation. Prereq: 1212, 1211, 1222, 1223, 1224, Engr 1221, 1281.01H, 1281.02H, or CSE Placement Level A. Prereq or concour: Math 1151, 1161.01, or 1161.02. Not open to students with credit for 5022. This course is available for EM credit.

Software I: Software Components

Intellectual foundations of software engineering; design-by-contract principles; mathematical modeling of software functionality; component-based software from client perspective; layered data representation. Prereq: 1212, 1211, 1222, 1223, 1224, Engr 1221, 1281.01H, 1281.02H, or CSE Placement Level A. Prereq or concour: Math 1151, 1161.01, or 1161.02. Not open to students with credit for 5022. This course is available for EM credit.

Construction Systems Management
4 Construction Systems Management

2305 Professional Development I U 2
Business communications and professional development in construction systems management including informative and persuasive writing, academic planning, project management, research techniques, training, report writing and presentations. Prereq: English 1110. Not open to students with credit for AgSysMt 2305. This course is available for EM credit.

Consumer Sciences: Hospitality Management

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

Earth Science

1105 Geology of the National Parks U 3

1151 Natural Hazards U 3

1200 Introduction to Earth Science Laboratory U 1
Laboratory application of basic earth sciences principles to identify and categorize rocks and minerals, use and construct maps to solve geological problems, and analyze Earth's physical processes. Pair with EarthSc 1105, 1108, 1211, 1151, 2203, 2204, 2205, or 2206(S) for physical science GE with lab. Autumn 2022 and after: Pair with EarthSc 1105, 1108, 1121 or 1151 to fulfill the GE Foundations: Natural Science requirement. Prereq or concur: 1105, 1108, 1121, 1151, 2203, 2204, 2205, or 2206(S). Not open to students with credit for 1100 or 2122. Not open to students with credit for EarthSc 1121 prior to Au 21. GE nat sci phys course. GE foundation natural sci course.

Economics

2001.01 Principles of Microeconomics U 3
Introduction to economic theory: supply and demand for goods, services, and factor inputs; market structure, international trade, the distribution of income. First required course for students planning to take 4000-level courses in Econ. Prereq: Not open to students with credit for 2001.02, 2001.03H, 200, 200H, or AEDEcon 2001 (200). This course is available for EM credit. GE soc sci human, nat, and econ resources course. GE foundation social and behavioral sci course. SS Admis Cond course.

2002.01 Principles of Macroeconomics U 3
Introduction to the theory of national income determination: economic fluctuations; money, government policy; international economics. Prereq: Not open to students with credit for 2002.02, 2002.03H, 201, or 201H. This course is available for EM credit. GE soc sci orgs and polities course. GE foundation social and behavioral sci course.

Education: Teaching and Learning

2189 Field Experience U 1 - 2
The EDUTL 2189 field experience is designed to provide undergraduate students, in pre-program education, with an opportunity to work with youth within a professional setting in a school, tutoring environment or community agency. Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 15 completions.

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.

2368 Introduction to Children's Literature U 3
This is a survey course in which students study the historical and contemporary elements of literature intended for children, including picturebooks; traditional tales; novels of realism, and fantasy; nonfiction; poetry; and multicultural books. Prereq: English 1110, or equiv. Not open to students with credit for 467. GE lit course. GE foundation lit, vis and performing arts course.

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

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

3189.02 Field Experience: Middle Childhood Education U 1 - 2
The experience is designed to provide: lesson planning, teaching, and classroom management; student learning, interests, and perspectives; (3) the requirements of being a professional educator; and effectively bringing together the work done in a university classroom with work done in grades 4-8 classrooms. Prereq: Admission to Middle Childhood Education Major. Repeatable to a maximum of 4 cr hrs or 4 completions.

3189.09 Field Experience: Child and Youth Studies U 1 - 2
Field experience designed to provide undergraduate students in the Child & Youth Studies program an opportunity to work with a cooperating professional within an educational or community organization focusing on teaching & learning. Prereq: Admission to Child and Youth Studies Major. Repeatable to a maximum of 4 cr hrs or 4 completions.

3356 Literature for Adolescents U 3
Literature for individual, group, and whole-class reading in junior and senior high schools; interest factors and literary value as criteria for selection; bibliographic aids. Prereq: English 1110 or equivalent. Not open to students with credit for 656 or 3356E. GE lit course. GE foundation lit, vis and performing arts course.

4189.01 Advanced Field Experience: Early Childhood Education U 1 - 4
The field experience is designed to provide: classroom practices in lesson planning, teaching, and guidance and discipline; student learning, interests, and perspectives; the official and unofficial requirements of being a professional educator; and how you can effectively bring together the work done in a university classroom with your work in classrooms with students age 3 to grade 3. Prereq: Admission to Early Childhood Education Major. Repeatable to a maximum of 12 cr hrs or 3 completions.

4189.02 Advanced Field Experience: Middle Childhood Education U 1 - 4
The field experience is designed to provide: best practices in lesson planning, teaching, and classroom management; student learning, interests, and perspectives; the official and unofficial requirements of being a professional educator; and how you can effectively bring together the work done in a university classroom with grade 4-8 classrooms. Prereq: Admission to Middle Childhood Education Major. Repeatable to a maximum of 12 cr hrs or 3 completions.

4191 Internship U 1 - 5
Internship in an educational or community setting. Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 15 completions.

5005 Equity and Diversity in Education U 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 815.

5101 Teaching and Learning with Drama: Introduction U 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 3
Examination of children's oral and written language development and related theoretical understandings instrumental for teaching reading and writing. Prereq: Not open to students with credit for 5469, and enrollment in Education major or Master of Education. SS Admis Cond course.

5108 Teaching and Learning of Mathematics in Grades Pre-K - 3 U 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.

5123 Early Childhood Pedagogy U 3
Pedagogy I explores sociocultural perspectives on teaching and learning in early childhood and elementary education, the role of teacher as researcher/inquirer, and the ways in which sociocultural pedagogies interface with standard-based education. Prereq: Admission to major or M.Ed. Not open to students with credit for 723.

5129 Teaching and Learning of Science in Grades Pre K - 3 U 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 of Education. Not open to students with credit for 729.

5137 Teaching and Learning of Social Studies Grades Pre-K - 3 U 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: Open to students with credit for 373.

5191.01 Supervised Student Teaching Internship: Early Childhood Education U 3 - 15
Student teaching is designed to assess and support preservice pre-K-3rd grade teachers as they develop the necessary knowledge, skills, and dispositions required for beginning level teachers. Prereq: Admission to Early Childhood Education major or M.Ed program. Repeatable to a maximum of 30 cr hrs or 2 completions.
Education: Teaching and Learning

Education Studies

5191.02 Supervised Student Teaching Internship: Middle Childhood Education U G 3 - 15
Student teaching is designed to assess and support preservice 4th-8th grade teachers as they develop the necessary knowledge, skills, and dispositions required for beginning level teachers. Prerequisite: Admission to Middle Childhood Education Major or MEd program. Repeatable to a maximum of 30 cr hrs or 2 completions.

5195.01 Reflective Seminar: Early Child Care Education U G 1 - 4
This course serves as the place for mediating learning & applying it to the practical. You will engage in reading, discussion, reflection to develop your understanding of the relationship between what you learn in the university classroom & what you experience in the elementary classroom. Prerequisite: Admission to Early Childhood Education Major or MEd program. Repeatable to a maximum of 10 cr hrs or 5 completions. This course is graded S/U.

5195.02 Reflective Seminar: Middle Childhood Education U G 1 - 4
Reflective Seminar is part of a 3-part seminar that takes place over the course of 3 semesters. This course includes what is focused on the more traditional sciences of teacher preparation. Prerequisite: Admission to Middle Childhood Education Major or MEd program. Repeatable to a maximum of 10 cr hrs or 5 completions. This course is graded S/U.

5195.09 Reflective Seminar: Child and Youth Studies U G 1 - 4
This course is designed to assess and support student in their final year as they develop the necessary knowledge, skills, and dispositions required for entry level education professionals. Prerequisite: Admission to Child and Youth Studies Major. 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.

5225 Diverse Literature and Comprehension - Elementary-Middle Education U G 3
Meets state requirements for understanding theory and methods linking the teachers understanding of diverse literature with comprehension theory and practice and the related construction of literate environments.

5226 Composing Print + Digital Multimodal Texts U G 3
This course focuses on interactive, creative, critical, dialogic approaches for teaching and learning composing in both print and digital multimodal formats, and is particularly applicable to early and middle childhood classrooms.

5230 Language Arts Methods for Preservice Middle Childhood Teachers U G 3
Preservice teachers study methods for teaching middle childhood students writing and reading. They explore the significance of students interests, language, and communities to their knowledge and meaning-making of the Language Arts.

5270 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 8.

5275 Science Methods for Preservice Middle Childhood Teachers U G 3
This course focuses on methods for teaching middle childhood science teachers of students reading and writing. They explore the significance of students learning abilities to the meaning-making of the Language Arts.

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. Prerequisite: Not open to students with credit for 738.

5468 Foundations of Reading and Literacy U G 3
Introduction to the theories and practices of teaching and learning of literacy for children in early and middle childhood. Major themes of the course are a child-centered philosophy of literacy instruction and diversity awareness - the need for teachers to be aware of the diversity of backgrounds and abilities that children bring to the classroom and of strategies for dealing with that diversity.

5469 Language and Word Study for All Learners U G 3
This course provides a detailed examination of the ways that oral and written language works and how this supports development of English word reading and spelling skills for learners who are monolingual speakers of Standard English as well as those who speak other languages and varieties of English. Prerequisite: 5468. Repeatable to a maximum of 3 cr hrs.

5471 Clinical Practice in Treating Reading Disabilities U G 3
Use of test materials in the diagnosis of reading disabilities; practice with remedial procedures. Prerequisite: 5470; or permission of instructor. Not open to students with credit for 671. Repeatable to a maximum of 6 cr hrs.

5195.02 First Education Experience Program (FEEP) U G 3 - 5
Provides opportunities for students to explore education as a possible career path via a combination of field and seminar requirements. Students spend time in local, public PreK-12 school-based settings, interacting with various professionals and students. GE service learning course.

5277 Seminar: Personal Growth to Increase Career Competencies U G 2
Designed to provide opportunities to assist in self-exploration of and clarification for more effective development beyond the level of average performance. Prerequisite: Not open to students with credit for EduPAS 270.02. This course is graded S/U.

Education: Educational Psychology

1159 Online Learning Strategies and Skills U G 2
Explores how to use the web for a successful college experience. Covers navigating online resources, communicating academic content, and enhancing learning via the web. This course has been peer reviewed and is officially recognized by Quality Matters as meeting the standards of a quality online course. For more information, visit www.qmprogram.org. Prerequisite: Not open to students with credit for EduPAS 159.

1259 Learning and Motivation Strategies for College Success U G 3
Teaching learning and motivation strategies to help students manage time, improve grades, and achieve college success. Students will develop practical skills for personal and academic effectiveness, while also understanding the related research. Topics include boosting motivation, overcoming procrastination, enhancing organization and concentration, and applying effective strategy studies.

2059 Becoming a Self-Regulated Learner U G 2
This course will build strategies and motivation to overcome recent academic challenges and prepare for success in the future. Main topics we will cover include self-regulation, active learning, studying, using resources, planning, goal setting, and time management. Our entire course is geared toward helping students become self-regulated learners.

3206 School and Society U G 3
Use of concepts and methods of history, philosophy and the social sciences to grasp the interrelationship between a diverse society and education. GE diversity soc div in the US course. GE foundation race, ethnicity and gender div course.

4280 History of Modern Education U G 3
Development of educational institutions, practices, and theories in the modern world, particularly in the U.S., and the social and intellectual movements influencing them.

4403 Ethics and the Professional Context of Teaching U G 3
Examination of the practices of teaching at national, state and local levels, highlighting the legal, professional, and ethical issues surrounding American schools and teaching.

Education: Educational Studies

3005 Learner Centered Classroom Assessment U G 3
Offers an in-depth look at classroom assessment that meets the needs of 21st century teaching and learning. During this course, prospective teachers will determine how classroom assessment strategies can benefit their teaching practices and their students learning. They will study how to plan, develop, and manage student-centered assessment.

3035 Introduction to Exceptional Children U G 3
Introduction to Exceptional Children is an overview of the education of exceptional learners. This course focuses on students whose attributes/learning abilities differ from the norm to such an extent that an individualized program of special education is required to meet their needs. Enrollees will learn about the categories of special education (and their criteria), prevalence, and demographics.

5734.02 Methods of Instruction for Elementary Children with Mild/Moderate Disabilities: Mild/Moderate U G 3
This is a method course with a field placement that will provide students with information and strategies for working with children who have mild disabilities. Prerequisite: 5742 or 5734.02; and enrollment in Special Education: Mild/Moderate major; or permission of instructor.
## 6 Educational Studies: Special Education

### 1180 Spatial Visualization Practice and Development
**Course Description:**
Instruction and exercises to develop spatial visualization skills in preparation for Fundamentals of Engineering and advanced coursework.

**Additional Information:**
Pre-Requisite: 1181.01 or 1182.01 or 1182.02 or 1182.03 or 1182.04 or 1186.01, or 1186.07 or 1187 or 1188.

### 1181.01 Fundamentals of Engineering I
**Course Description:**
Engineering problem solving utilizing computational tools such as Excel and Matlab; hands-on experimentation; modeling; ethics; teamwork; written, oral and visual communications; project management. Pre-Requisite: 1181.01 or 1181.02 or 1281.01H or 1281.02H or 1281.03H. Pre-Requisite or Concur: Math 1140 or 1141; or Math 1150 or above. Not open to students with credit for Engineering 183.01, 183.02, 1182.01, 1182.02, 1182.03, 1182.04, 1186.01, 1186.07, or 1188.

### 1182.01 Fundamentals of Engineering II
**Course Description:**
Introduction to 3D visualization and CAD; engineering design-build process; teamwork; written, oral and visual communications; project management. Pre-Requisite: 1181.01 or 1181.02 or 1281.01H or 1281.02H or 1281.03H. Pre-Requisite or Concur: Math 1141; or Math 1151 or above. Not open to students with credit for Engineer 181.01 or 181.02 or Engr 1188 or 1187 or 1188; not repeatable if credit earned for 1182.01 or 1182.02 or 1182.03 or 1282.01H or 1282.02H or 1282.03H or 1282.04H.

### 2100 Introduction to Engineering Technology
**Course Description:**
Introduction to the roles available in engineering technology, professional development planning for students pursuing this degree, and exposure to common elements in engineering technology. Course work will emphasize written and verbal communication skills. Pre-Requisite: Enrollment in the BSET program.

### 1500 Manufacturing Processes I
**Course Description:**
History of manufacturing, tools and machines, and operations of the machine shop equipment. Opportunity to function individually and on teams, and communicate effectively to learn to work in groups to accomplish a task. The skills learned from this class are transferable to all areas of day to day professional life which makes it valuable in other contexts.

### 1600 Engineering Graphics
**Course Description:**
Develop skills in graphic design and visualization through experience creating and interpreting 2D Computer Aided Drawings in AutoCAD. Explore various forms of technical graphics used in the field of Engineering Technology including facility layouts, piping and instrumentation diagrams, and electric schematics. Emphasis on utilizing technical graphics to solve Engineering Technology problems.

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

### 2500 Manufacturing Processes II
**Course Description:**
Modern manufacturing processes. Design, create, and assembly of structure/objects by combining the manufacturing and graphical design knowledge. Opportunity to function individually and on teams and communicate effectively to learn to work in groups to accomplish a task. The skills learned from this class are transferable to all areas of day-to-day professional life which makes it valuable in other contexts. Pre-Requisite: 1150.

### 3100 Material Science with Engineering Technology Applications
**Course Description:**
Supplemental course for BSET students that should be taken along with MatSciEn 10. This course will provide hands-on exposure to common manufacturing materials physical and chemical characteristics (like electrical and heat conductance) as well as testing methods (like stress, strain, hardness, brittleness, and microstructure). Pre-Requisite: Physics 1250 or 1250H, and Math 1151 or 1154, and Chem 1210 or 1250; or permission of instructor.

### 3700 Mechanical Processes
**Course Description:**
Mechanical Processes is a 3-hour course designed to help students become familiar with modern mechanical processes as well as hydraulics/pneumatics and mechanical systems in manufacturing applications. The fundamentals and applications of mechanical systems included include pneumatics and hydraulics, cams, gears, bearings, gears, rotary and linear actuation. Pre-Requisite: 2500 and Engr 1182.

### 3800 Project Management for Engineering Technology
**Course Description:**
Project Management is a course that focuses on waterfall (PMBOK) and Agile methodologies for managing projects in the manufacturing industry. Emphasis is placed on project initiation, planning, executing, monitoring & controlling, and closing processes. This course will provide students with an overview of leadership roles and responsibilities, as well as interpersonal skills, conflict resolution. Pre-Requisite: 2509 and ESE 2040; or permission of instructor. Not open to students with credit for ESE 3800.
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2302</td>
<td>Human Anatomy and Physiology</td>
<td>Study of the human body with emphasis on structure, function, and disease.</td>
</tr>
<tr>
<td>3301</td>
<td>Evolution</td>
<td>Basic concepts and issues in evolution, emphasizing the ecological basis of adaptation and consequences of natural selection.</td>
</tr>
<tr>
<td>3420</td>
<td>Behavioral Ecology</td>
<td>Comparative study of animal behaviors and analysis of their adaptive value, physiological mechanisms, development, and evolution, within their ecological and social context.</td>
</tr>
<tr>
<td>4220</td>
<td>Focused Study of Ecology and Evolution - Mammals</td>
<td>Mammals of the world, their natural history, distribution, taxonomy, and major anatomical and physiological adaptations; study of local species emphasized in lab.</td>
</tr>
<tr>
<td>4520</td>
<td>Comparative Physiology</td>
<td>Functional systems in invertebrates and vertebrates: respiration, circulation, water, ion, and energy balance; communication; locomotion; and reproduction.</td>
</tr>
</tbody>
</table>

### Film Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2367.01</td>
<td>The American Film Auteur</td>
<td>An intermediate course centering around the work of one important US filmmaker that extends and refines expository writing and analytic reading/viewing skills.</td>
</tr>
<tr>
<td>2367.02</td>
<td>The American Film Genre</td>
<td>An intermediate course centering around the works of one important US film genre that extends and refines expository writing and analytic reading/viewing skills.</td>
</tr>
</tbody>
</table>

### Food Science and Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2410</td>
<td>Brewing Science</td>
<td>To understand the scientific principles of brewing as related to modern beer production.</td>
</tr>
</tbody>
</table>

### Geography

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400</td>
<td>Economic and Social Geography</td>
<td>Geographical analysis of relationships between society and economy, focusing on such issues as globalization, production and consumption, inequality and social difference.</td>
</tr>
</tbody>
</table>

### Additional Information

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3398</td>
<td>Methods for the Study of Literature</td>
<td>3 sem hrs in Biological Sciences, and permission of instructor.</td>
<td>Serves as the &quot;Methods&quot; course for the Literature and Creative Writing concentrations within the English major. Its purpose is to familiarize students with literary studies in such a way as to prepare them for advanced courses in all literary fields and the genres of Creative Writing.</td>
</tr>
<tr>
<td>4515</td>
<td>Chaucer</td>
<td>6 cr hrs in English at 2000-3000 level, or permission of instructor.</td>
<td>A close study of Troilus and Criseyde and The Canterbury Tales as introduction to the artist and his period.</td>
</tr>
<tr>
<td>4564.04</td>
<td>Major Author in 20th-Century Literature</td>
<td>6 cr hrs in English at 2000-3000 level, or permission of instructor.</td>
<td>Intensive study of one of the major authors of the period.</td>
</tr>
<tr>
<td>4578</td>
<td>Special Topics in Film</td>
<td>6 cr hrs in English at 2000-3000 level, or permission of instructor.</td>
<td>Examination of particular topics, themes, genres, or movements in cinema; topics may include particular directors (Orson Welles), periods (The Twenties), genres (horror).</td>
</tr>
</tbody>
</table>

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**Undergraduate Thesis Research**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4999</td>
<td>Undergraduate Thesis Research</td>
<td>8 cr hrs in Biological Sciences, and permission of instructor.</td>
<td>Undergraduate research towards a thesis in Evolution and Ecology, or Zoology.</td>
</tr>
</tbody>
</table>

**University Exploration Survey**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1100.01</td>
<td>University Exploration Survey</td>
<td>8 cr hrs in Biological Sciences, and permission of instructor.</td>
<td>Introduction to the process of decision making and exploring majors at Ohio State; introduction to university community; strategies for success</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Units</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
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<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2001</td>
<td>Launching America (U) 3</td>
<td></td>
<td>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. Pre-req or conc. Enroll 1110.xx, or permission of instructor. Not open to students with credit for 1151 (151). GE historical study and diversity soc div in the US course. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>2002</td>
<td>Making America Modern (U) 3</td>
<td></td>
<td>A rigorous, intermediate-level history of modern U.S. in the world from the age of industrialization to the age of globalization. Sometimes this course is offered in a distance-only format. Pre-req or conc. Enroll 1110.xx, or permission of instructor. Not open to students with credit for 1152. GE historical study and diversity soc div in the US course. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>2120</td>
<td>Revolutions and Social Movements in Modern Latin America (U) 3</td>
<td></td>
<td>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. Pre-req or conc. Enroll 1110.xx, or permission of instructor. GE historical study and diversity global studies course. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>2550</td>
<td>History of War (U) 3</td>
<td></td>
<td>A survey of the main concepts and issues involved in the study of war in world perspective, using case studies from prehistoric times to the present. Pre-req or conc. Enroll 1110.xx, or permission of instructor. Not open to students with credit for 380. GE historical study and diversity global studies course. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>2641</td>
<td>Global History to 1500 (U) 3</td>
<td></td>
<td>Examines the major issues that have shaped the human experience from the beginnings of human civilization (ca. 3500 B.C.E.) to ca. 1500 C.E. through comparative study of civilizations within the context of religion, trade, technology, art, culture, and gender relations. Pre-req or conc. Enroll 1110.xx, or permission of instructor. Not open to students with credit for 1892 (192). GE historical study and diversity global studies course. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>2650</td>
<td>Global History 1500 to Present (U) 3</td>
<td></td>
<td>Examines the major issues that have shaped the human experience of various regions since 1500 C.E. through comparative study of civilizations within the context of religion, trade, technology, art, culture, industrialism, imperialism, revolution, and gender relations. Pre-req or conc. Enroll 1110.xx, or permission of instructor. Not open to students with credit for 1892 (192). GE historical study and diversity global studies course. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>2800</td>
<td>Introduction to the Discipline of History (U) 3</td>
<td></td>
<td>Investigation of the methods and analytical approaches historians use to understand the past. Pre-req or conc. Enroll 1110.xx.</td>
</tr>
<tr>
<td>3017</td>
<td>The Sixties (U) 3</td>
<td></td>
<td>Examination of postwar America's pivotal point, focusing on civil rights; liberal, radical, and conservative politics; swing of social, cultural, and economic change; and the Vietnam War. Pre-req. Enroll 1110.xx, or permission of instructor. GE historical study course. GE theme citizenship for div and just wrld course.</td>
</tr>
<tr>
<td>3105</td>
<td>History of Brazil (U) 3</td>
<td></td>
<td>History of Brazil during colonial and independence periods with major emphasis on the 19th and 20th centuries. Pre-req. Enroll 1110.xx, or permission of instructor. Not open to students with credit for 504.02. GE historical study course.</td>
</tr>
<tr>
<td>3215</td>
<td>Sex and Gender in the Ancient World (U) 3</td>
<td></td>
<td>Introductory survey of women, gender, and sexual relations in the ancient Mediterranean world, especially Greece and Rome. Sometimes this course is offered in a distance-only format. Pre-req or conc. Enroll 1110.xx, or permission of instructor. Not open to students with credit for Class 3215. GE historical study and diversity global studies course. GE foundation historical and cultural studies course. Cross-listed in Class.</td>
</tr>
<tr>
<td>3247</td>
<td>Magic and Witchcraft in Early Modern Europe (1450-1750) (U) 3</td>
<td></td>
<td>Investigation of the history of European witchcraft, focusing on intellectual, religious, and social developments and on the great witchcraft trials of the early modern period. Sometimes this course is offered in a distance-only format. Pre-req. Enroll 1110.xx, or permission of instructor. GE historical study and diversity global studies course.</td>
</tr>
<tr>
<td>3641</td>
<td>Women and Gender in Early Modern Europe: 1450-1750 (U) 3</td>
<td></td>
<td>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. Pre-req or conc. Enroll 1110.xx, or permission of instructor. GE historical study course. GE foundation historical and cultural studies course.</td>
</tr>
<tr>
<td>4125</td>
<td>Seminar in Latin American History (U) 3</td>
<td></td>
<td>Advanced research and readings on selected topics in Latin American History. Pre-req or conc. Enroll 1110.xx, a grade of C or above in History 2800, and any 3000-level History course, or permission of instructor.</td>
</tr>
<tr>
<td>1101</td>
<td>Plant Parenting (U) 2</td>
<td></td>
<td>This course demonstrates how propagating, growing, and caring for plants is based on scientific principles that are appreciated by developing skills in plant parenting. By the end of the term, students should be confident in their ability to grow a wide variety of houseplants and some popular garden plants.</td>
</tr>
<tr>
<td>2410</td>
<td>Science of Human Nutrition (U) 4</td>
<td></td>
<td>Basic principles of biological science, emphasizing the interaction between nutrients and physiological (including cellular) processes. Pre-req. Not open to students with credit for 2210. GE nat sci bio course. GE foundation natural sci course.</td>
</tr>
<tr>
<td>2040.01</td>
<td>Engineering Economics In-Person (U) 2</td>
<td></td>
<td>Economic analysis of engineering project alternatives. Cash flow modeling: time value of money; techniques for comparing project alternatives and making solid business recommendations; influence of financial accounting and cost accounting on cash flow models. Course uses MS Excel as primary business tool for modeling. Pre-req. Soph standing in Engineering or BSET program.</td>
</tr>
<tr>
<td>1195.01</td>
<td>Yoga I (U) 1</td>
<td></td>
<td>Introduction to fundamental techniques and basic yogic principles of pranayama (breath control), asana (posture), relaxation, and meditation; emphasis on major postures. Pre-req. Not open to students with credit for EduPAES 195.01.</td>
</tr>
<tr>
<td>2000</td>
<td>Introduction to Landscape Architecture (U) 1</td>
<td></td>
<td>Introduction to the profession of Landscape Architecture and the breadth of Landscape Architectural projects and practice. This course is graded S/U.</td>
</tr>
<tr>
<td>2010</td>
<td>Introduction to Engineering Materials (U) 3</td>
<td></td>
<td>Introduction to the properties (mechanical, electrical, thermal, diffusive, degradative, magnetic, optical), structure, and processing of engineering materials, including ceramic, metals, polymers, biological, and composite materials. Pre-req. Physics 1250 or 1260, and Math 1151, 1161, or 1154 and enrollment in BSET program; and Chemistry 1210 or 1250 or 1910H; or permission of instructor.</td>
</tr>
<tr>
<td>1050</td>
<td>Precalculus Mathematics I (U) 5</td>
<td></td>
<td>Fractions and decimals, basic algebra, graphing lines, factoring, systems of equations. Credit for this course will not count toward graduation in any degree program. Pre-req. 1040 (040) or 050, or Math Placement Level T, or permission of department. Not open to students with credit for any Math course above 1050 (050). This course is available for EM credit.</td>
</tr>
<tr>
<td>3247</td>
<td>Magic and Witchcraft in Early Modern Europe (1450-1750) (U) 3</td>
<td></td>
<td>Investigation of the history of European witchcraft, focusing on intellectual, religious, and social developments and on the great witchcraft trials of the early modern period. Sometimes this course is offered in a distance-only format. Pre-req. Enroll 1110.xx, or permission of instructor. GE historical study and diversity global studies course.</td>
</tr>
</tbody>
</table>
1075 Precollege Mathematics II U 4
Algebraic, rational, and radical expressions; functions and graphs; quadratic equations; absolute value; inequalities; and applications. Credit for this course will not count toward graduation in any degree program. Prereq: 1074 or 1075, or a grade of C- or above in 1050; or Math Skills Assessment Level R or S; or ACT math subscore of 22 or higher that is less than 2 years old. Not open to students with credit for any Math course above 1075, except for 1116; or for any quarter-system course above 1075, except for 1116. This course is available for EM credit. GE quant reason basic computation course.

1116 Excursions in Mathematics U 3
Critical thinking and problem solving, with relevant topics met in everyday life. Appropriate for non-science majors. Prereq: 1073, 1074, 1075, 75, or 104; or Math Placement Level R or above; or ACT math subscore of 22 or higher that is less than 2 years old. Not open to students with credit for 1152 (153) or above. GE foundation math and quant reasoning or data anyl course. GE foundation math and quant reasoning or data anyl course.

1130 College Algebra for Business U 4
Algebraic, exponential, and logarithmic functions. Matrix algebra. Applications to business. Prereq: A grade of C- or above in 1075, or credit for 104, or Math Placement Level M or N; or ACT math subscore of 22 or higher that is less than 2 years old. Not open to students with credit for 1131 (131), or for any Math course numbered 1149 (150) or above. This course is available for EM credit. GE quant reason math and logical anly course. GE foundation math and quant reasoning or data anyl 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. GE foundation math and quant reasoning or data anyl course.

1135 Number and Operations for Teachers U 5
The first course in a two semester sequence for teachers of elementary and middle grade students. This course focuses on concepts of numbers and arithmetic operations, including modern and historical perspectives. Prereq: A grade of C- or above in 1075; or credit for 1074, 75, or 104; or Math Placement Level R or above; or ACT math subscore of 22 or higher that is less than 2 years old. Not open to students with credit for 106.

1136 Measurement and Geometry for Teachers U 5
This course is the second in a two semester sequence for teachers of elementary and middle grade students. This course focuses on concepts of measurement and geometry, including modern and historical perspectives. Prereq: A grade of C- or above in 1135.

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 ACT math subscore of 22 or higher that is less than 2 years old, or permission of department. Not open to students with credit for 1144, or for Math courses numbered 1150 (150) or above. This course is available for EM credit. GE quant reason math and logical anly course. GE foundation math and quant reasoning or data anyl course.

1149 Trigonometry U 3
Trigonometric functions and their properties. Trigonometric identities. Applications. Prereq: A grade of C- or above in 1148; or credit for 1144 or 1148, 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. GE foundation math and quant reasoning or data anyl course.

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

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

1155 Calculus II for Engineering Technology U 4
Calculus II for Engineering Technology is the second in a two-course calculus sequence specifically designed for Engineering Technology. It covers standard Calculus topics including limits, Taylor Polynomial approximations, differential equations and functions of several variables with an emphasis on building mathematical intuition, problem solving and using appropriate technology to find solutions. Prereq: A grade of C- or above in 1154.

1172 Engineering Mathematics A U 5
Techniques of integration, Taylor series, differential calculus of several variables, and applications. Prereq: A grade of C- or above in 1114 (114), 1151, 1156, 1161.xx, 152.xx, 161.xx, or 161.014. Not open to students with credit for 1152, 1534 (153.xx), or 1544 (154), or for any Math class numbered 1172 or above, or for any quarter-system Math class numbered 254.xx or above. Not open to students majoring in Math, pre-Actuarial Science, or Actuarial Science. This course is available for EM credit.

2137 Algebra and Coordinate Geometry for Teachers U 3
This is one of two independent courses which follow Math 1136 to provide necessary content for middle grade teachers. This course focuses on algebra, coordinate geometry, and their connections through equations in one or more unknowns. Modern and historical perspectives are woven throughout. Prereq: A grade of C- or above in 1136; and a grade of C- or above in 1149 or 1150, or credit for 150, or math placement level L.

Microbiology

4000.01 Basic and Practical Microbiology U 4
Provides an understanding of microorganisms and their interaction with the human experience. Prereq: 3 cr hrs in Biology. Not open to students with credit for 4000 or 4000.02. GE nat sci bio course. GE foundation natural sci course.

Music

2031 The Informed Beginning Pianist U 3
This course is designed for people with little or no musical background who want to learn how to play piano and gain valuable insights into how piano music has shaped cultural values and norms. GE VPA course. GE foundation lit, vis and performing arts course.

2032.03 University Chorus U ½ - 2
Selected choral works are studied and performed. Prereq: Admission by audition only. Repeatable to a maximum of 16 hrs or 8 completions. 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 Music majors. GE VPA and diversity global studies course. GE foundation lit, vis and performing arts course.

2251E 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. Music 2251E is an honors embedded course. Prereq: Honors standing or permission of instructor. Not open to students with credit for 251 or Music majors. GE VPA and diversity global studies course. GE foundation lit, vis and performing arts course. VSP Admis Cond course.

3364 Musical Citizenship: Activism, Advocacy and Engagement in Sound U 3
This course examines the sonic expressions of people’s status, identity, rights, and duties as political subjects across multiple scales of place. We will consider the value of cultural advocacy in the public sector and social activism in the public sphere and the importance of partnering with (non)governmental institutions, community organizations, and grassroots affiliates to advance musical art. GE VPA and diversity global studies course. GE theme citizenship for div and just wrld 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.

Nursing Advancement

2440 Foundations and Contemporary Issues for Registered Nurses U 3
Provides the framework for exploration of professional issues in contemporary nursing and health care for nurses pursing a baccalaureate degree. Prereq: Enrollment in the RN to BSN program.

4520 Health Care Informatics U 2
Examination of informatics in health care emphasizing clinical information systems and the use of the information technology (IT) applications to support nursing practice. Prereq: Enrollment in the RN to BSN program.

4600 Interprofessional Concepts U 2
Examination of principles, competences, and practices that support interprofessional collaboration, a culture of safety, and improve patient outcomes. Prereq: Enrollment in the RN-BSN program.
10 Nursing Advancement

4780 Evidence Based Practice: Transforming Healthcare U 3
Examination of principles, competencies, practices, and skills that support implementation and sustainability of evidence-based practice in order to improve quality, safety and improve outcomes for patients, populations, providers, organizations, and communities across the globe. Prereq: Enrollment in RN to BSN program, or permission of instructor.

1100 Introduction to Philosophy U 3
Examination of major problems, such as the nature of reality, knowledge, truth, morality, and the relation of philosophy to science and religion. GE courses and ideas course. GE foundation historical and cultural studies course.

1300 Introduction to Ethics U 3
The nature of right and wrong, good and evil; the grounds of moral choice and decision; the resolution of moral conflicts. Prereq: GE courses and ideas course. GE foundation historical and cultural studies 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 1300. GE courses and ideas course. GE foundation historical and cultural studies course.

1500 Introduction to Logic U 3
Deduction and induction; principles of clear statement and valid reasoning; fallacies; and the methods by which theories and laws are established. Prereq: Math 1060 or 1075 or equiv; or an ACT Math subscore of 22 or higher; or Math Placement Level R or better. Not open to students with credit for 1500.1, 1500.2, or 1501. GE quant reason math and logical analysis course. GE foundation math and quant reasoning or data anyl course.

2340 The Future of Humanity U 3
Examination of long-term ethical challenges facing humanity due to technological, environmental, and other developments. GE courses and ideas course. GE theme sustainability course.

Physics

1106.01 Physics by Inquiry: Properties of Matter, Heat and Temperature, and Forces and Motion U 5
Investigation of the properties of matter, motion and thermodynamics using the inquiry technique. Intended for non-science majors. Prereq: Not open to students with credit for Physics 106 and 107. GE nat sci course. GE foundation natural sci 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 1120 or 1148, or Math Placement Level M. This course is available for EM credit. GE nat sci course. GE foundation natural sci 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 122. This course is available for EM credit. GE nat sci phys course. NS Admins Cond course.

1231 Physics for Engineering Technology: Electricity and Magnetism U 3
Calculus-based introduction to electricity and magnetism, for students in Engineering Technology. Prereq: 1250, 1250H, or 1260; and Math 1141 or 1151 or 1154 or above; or permission of instructor. Concur: Math 1152, 1155, 1158, 1161, 1172, 1181H, or 4181H. Not open to students with credit for 1251. This course is available for EM credit. GE nat sci course. GE foundation natural sci course.

1250 Mechanics, Work and Energy, Thermal Physics U 5
Calculus-based introduction to classical physics: Newton’s laws, work and energy, fluids, thermodynamics; for students in physics sciences, mathematics, and engineering. Prereq: or concur: Math 1141, 1151, 1154, 1156, 1161, 1181H, or 4181H. This course is available for EM credit. GE nat sci course. GE foundation natural sci course.

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

Political Science

1100 Introduction to American Politics U 3
Introduction to American politics, the institutions and processes which create public policy, the strengths and weaknesses of the American political systems. Prereq: Not open to students with credit for 3100 (300), 101, or 101H. This course is available for EM credit. GE soc sci orgs and polities course. GE foundation social and behavioral sci course. SS Admins Cond course.
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 (101) or 1103H (103H). Not open to students with credit for 530.

3551  Psychology of Adolescence U 3
An examination of the biological, psychological, and social aspects of normal adolescent development.
Prereq: 1100 or 1103H.

4510  Cognitive Psychology Laboratory U 3
Training in experimental and quantitative methods in cognitive psychology; laboratory experiments include topics such as memory, perception, and attention.
Prereq: A grade of C- or above in 2220 and 2300; and a grade of C- or above in 3302, 3310, or 3312; and enrollment in Psych major; Not open to students with credit for 4520.

4540  Counseling Psychology U 3
Issues within the field of counseling psychology including assessment, counseling skills, multicultural issues, career, professional, and ethical issues.
Prereq: A grade of C- or above in 2220 and 2300; and a grade of C- or above in 2307.02, 3331, 3335, or 3530.

4998  Undergraduate Research in Psychology U 1 - 5
Supervised collaborative research in psychology.
Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 8 completions. This course is graded S/A.

Religious Studies

2370  Introduction to Comparative Religion U 3
Introduction to the academic study of religion through comparison among major traditions (Judaism, Christianity, Islam, Hinduism, Buddhism, etc.) and smaller communities.
Prereq: English 1110 or equiv. Not open to students with credit for 2370H or CompScl 2370H or 2370F. GE cultures and ideas and diversity global studies course. GE foundation historical and cultural studies and race, ethnicity and gender div course.

Russian

3460.01 Modern Russian Experience through Film U 3
Exploration of some of the most revealing hopes and disappointments of Russian people presented in internationally acclaimed Russian films. Taught in English.
Prereq: Not open to students with credit for 2465 except by permission of instructor. Repeatable to a maximum of 9 cr hrs. GE lit course, GE diversity global studies course. GE foundation lit, vis and performing arts course.

Slavic Languages and Literatures

2345  Introduction to Slavic and East European Literature and Culture U 3
Literature of a selected Slavic or East European country or countries in cultural and historical context; may include film, drama, art, music, and other media. Taught in English. May be repeated with topic change.
Prereq: Not open to students with credit for 2465 except by permission of instructor. Repeatable to a maximum of 9 cr hrs. GE lit course, GE diversity global studies course. GE foundation lit, vis and performing arts course.

Social Work

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

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

1140  Issues in Social Justice: Race, Gender and Sexuality U 3
Examines the history of social oppression directed at certain minority populations in the United States and its impact on their current opportunities and lived experiences. The primary purpose is to analyze how racism, sexism, heterosexism and institutionalized discrimination based on ethnicity affect the social welfare and well-being of those living in the United States. GE diversity soc div in the US course. GE foundation race, ethnicity and gender div course.

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

Introduces students to social and economic justice and injustice and presents multiple strategies to pursue social justice, with a particular emphasis on the role of advocacy.
Prereq: 1120, and enrollment in SocWork major.

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

3401  Research & Statistics for Understanding Social Work Problems and Diverse Populations U 3
This is the first course in the BSSW program sequence preparing students to effectively work with research evidence and statistics as social work professionals. Students will develop the requisite skills and knowledge for beginning to identify, assess, and apply existing bodies of evidence to answer questions about social work problems and diverse populations.
Prereq or concur: Math 1065 or 1075 or above, or Stat 1450 or above, or Math Placement Level R or above; and admission to the Social Work major. Not open to students with credit for 3401E.

3402  Research & Statistics for Understanding Social Work Interventions U 3
This is the second course in the BSSW program sequence preparing students to effectively work with research evidence and statistics as it applies to social work interventions at multiple levels. Students will develop the requisite skills and knowledge for beginning to identify, assess, and apply research evidence to inform and evaluate social work practices at multiple levels of intervention.
Prereq: 3401.

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

3502  Generalist Practice with Individuals U 4
Introduces students to the knowledge, skills and goals of generalist social work practice, with an emphasis on work with individuals. The content provides didactic and experiential learning of generalist practice skills that will facilitate and enhance the student's entry into the junior year field practicum and will serve as a foundation for entry level professional practice.
Prereq or concur: 3501.

3503  Social Work Practice with Diverse Populations U 3
Foundation knowledge and a social work perspective for working with diverse populations, especially those who are oppressed and marginalized.
Prereq: 1140, or any Race, Ethnicity and Gender Diversity GE course. Prereq or concur: 3501.

3600  Introduction to Psychopathology and Social Work Practice U 3
This course will familiarize students with the major mental disorders, offer strategies for building on clients' strengths and resilience, provide basic tools for screening and referral, and impart knowledge of the mental health delivery system and its resources.
Prereq: Admission to SocWork major.

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

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

4501  Generalist Practice with Families U 3
Application of professional values, knowledge, and skills essential for effective generalist social work practice with families.
Prereq: 3502 (645). Not open to students with credit for 646.

4502  Generalist Practice with Groups U 3
Application of professional values, knowledge, and skills essential for effective generalist social work practice with small groups.
Prereq: 3502 (645). Not open to students with credit for 646.

4503  Generalist Practice with Larger Systems U 3
Application of professional values, knowledge, and skills essential for effective generalist social work practice with organizations and communities.
Prereq: 4502. Not open to students with credit for 647.

5023  Family Violence: Social Work Perspectives and Interventions U G 3
This is a team-taught course, in collaboration with The Center for Family Safety and Healing, which introduces the fundamental knowledge and concepts for working with victims of all types of family violence. The factors that contribute to family violence and the long term consequences are emphasized. The importance of multidisciplinary teams in responding to family violence is addressed.
Prereq: Jr, Sr, or Grad standing.

5024  Social Work Licensure Exam Strategies and Skills U G 2
Course provides instruction on test taking strategies and developing a study plan and learning content and strategies to pass the Bachelors/Masters level licensure exam. Instruction and a five-volume ARTBS study guide provided. All content reflects the changes in the Ohio Social Work rules and provides students with access to multiple online, full-length practice tests in study and exam modes.
Prereq: Sr or Grad standing in Social Work. This course is graded S/U.
12 Social Work

5030 Global Social Work Perspectives on Poverty and Inequality U G 3
This course examines the nature and dimensions of poverty and inequality in the U.S. and across the world, considers individual and social consequences of poverty, and examines historic and contemporary approaches to ameliorating poverty including review of major poverty and social welfare policy and programs. Focuses on helping students understand why poverty matters to social workers. PreReq: Undergrad or Grad standing in SocWor.

5805 Theories and Biological Basis of Substance Misuse U G 3
The focus of this course is to explore traditional and contemporary theories, and their supporting evidence, related to substance misuse and the etiology of substance use disorders (including addiction). Satisfactory completion of introductory psychology and introductory biology course content is preferable/recommended, but not required. PreReq: Jr, Sr, or Grad standing; or permission of Instructor. Not open to students with credit for 3805.

5806 Diagnosis and Treatment of Substance Use Disorders U G 3
The focus of this course is to introduce concepts and current issues related to screening, assessment, diagnosis, and treatment for individuals with potential substance use disorders. It is also designed to meet chemical dependency educational content for Ohio's Licensed Chemical Dependency Counselor credentials. PreReq or concur: 3805 or 5805.

5808 Group and Relationship Approaches Addressing Substance Misuse U G 3
Course focus is to introduce evidence-based, evidence-supported, and evidence-informed models and techniques for group, family, and relationship-based interventions concerning substance misuse; surveys the evidence, techniques applied in group intervention for addressing substance misuse and related problems. Course is designed to meet educational content for Ohio chemical dependency licensure. PreReq or concur: 3805 or 5805. Not open to students with credit for 3805.

5809 Interacting with Individuals Regarding Substance Misuse U G 3
Course introduces students to evidence-based, evidence-supported, and evidence-informed strategies and techniques used with individuals to treat a substance use disorder. It is also designed to meet chemical dependency educational content for Ohio's Licensed Chemical Dependency Board's Prevention Professional credentials. PreReq or concur: 3805 or 5805.

Sociology

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

2209 Introduction to Criminal Justice U 3
Examination of the development and administration of criminal law and agencies (police, courts, corrections); emphasis on criminal proceedings and their justification. GE foundation social and behavioral sci course.

2463 Social Inequality: Race, Class, and Gender U 3
The study of social inequality with a focus on inequalities by race/ethnicity, gender, and class. GE soc sci orgs and polities and diversity soc div in the US course. GE foundation race, ethnicity and gender div course.

3410 Criminology U 3
Theories of delinquency, crime, and criminal careers; scientific aspects of crime measurement.

Spanish

1101 Spanish I U 4
Development of listening, reading, speaking, and writing skills in cultural contexts. Not open to native speakers of this language through regular course enrollment or EM credit or to students with 3 or more years of high school Spanish. Students with 1+ years of high school Spanish must take the MultiCAT placement exam. PreReq: Not open to students with credit for 1101.01, 1102.01, 1103, 1103.01, 1113, 1155, or equiv. courses. This course is available for EM credit. GE for lang course. GE world languages course.

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

1103 Spanish III U 4
Continuing development of listening, reading, speaking, and writing skills in cultural contexts. Both classroom-based and 100% online sections available each semester. A grade of C- or above is required to continue to 2202. Not open to native speakers of this language through regular course enrollment or EM credit. PreReq: 1102 or 1155. Not open to students with credit for 1103.01, 1103.51, 2202.01, or 2202.51. This course is available for EM credit. GE for lang course.

2151 Latin American Culture and Literature U 3
Introduction to the culture of Spanish America and Brazil through literature, art, music, film, and folklore. PreReq: Not open to students with credit for 151. GE cultures and ideas and diversity global studies course. GE foundation historical and cultural studies course.

Statistics

1350.01 Elementary Statistics U 3
Introduction to probability and statistics, experiments, and sampling, data analysis and interpretation. PreReq: Math 1050, or Math Placement Level S, or permission of Instructor. Not open to students with credit for GE Data Analysis course (AEDEcon 2005, AnimSci 2260, Astron 3350, Chem 2210, 2210H, ComLdr 3537, EarthSci 2245, Econ 3400, ENR 2000, Geog 2200.01, 2200.02, HCS 2260, IntSids 3400, Ling 2051, 2051H, Philos 1520, Physics 3700, Psych 1520, 1520H, Social 3540, Stat 1300, 1301.01, 1430, 1431.01, 1432.01, 1434H, 1450, 1450.01, 1450.02, 2450, 2450.01, 2450.02, 2480, 2480.01, 2480.02, 3450, 3450.01, 3450.02, 3470, 3470.01, 3470.02, 4202, 5301, or 5302). GE data anyl course. GE foundation math and quant reasoning or data anyl course.

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

1450.01 Introduction to the Practice of Statistics U 3
Algebra-based introduction to data analysis, experimental design, sampling, probability, inference, and linear regression. Emphasis on applications, statistical reasoning, and data analysis using statistical software. PreReq: Math 1116 or 1130 or above, or Math Placement Level L or M, or permission of instructor. Not open to students with credit for 1450, 1450.02, 2450, 2450.01, 2450.02, 2480, 2480.01, or 2480.02. GE data anyl course. GE foundation math and quant reasoning or data anyl course.

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

Theatre

2000.11 Technical Production Practicum: Box Office U 1
Provides experience in technical production activities. Repeatable to a maximum of 6 hrs or 6 completions.

2100 Introduction to Theatre U 3
A study of the art and profession of theatre, with an emphasis on evaluating and appreciating live performance, theatre's cultural importance, and its relationship to issues of social diversity. Students study performance conventions, tests, & spaces from ancient times to present day. While not an acting class, students get firsthand experience in the collaborative process of theatre creation. PreReq: Not open to students with credit for 2100H or 2101H. GE VPA and diversity soc div in the US course. GE foundation lit, vis and performing arts course.

2211 Introduction to Production Design U 3
Introduction to scenic, costume, lighting and sound design techniques for production; research in design and designing projects.

2367.02 African American Theatre History U 3
Examination of aesthetic and sociological evolution in America of African American theatre, literature, and film. PreReq: English 1110 (110) or equiv, and Soph, Jr, or Sr standing. Not open to students with credit for 2367 (367). GE writing and comm course: level 2 and lit and diversity soc div in the US course. GE foundation writing and info literacy and lit, vis and performing arts course.

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

3000 Production Run Crew Practicum U 1 - 2
Students in this course will serve as production technicians as part of the running crew for a theatre production. Each student will receive training for their specific role which may focus on lighting, costumes, media, sound, properties or scenery. No conventional class meetings, only orientation meeting and three weeks of evening/weekend productions. Repeatable to a maximum of 8 cr hrs or 4 completions.

3111 Stage Directing U 3
An introduction to the basic principles, techniques and challenges of directing for the stage. PreReq: 2811.
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**Women's, Gender, and Sexuality Studies**

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