

February 2024

Course Number Change

Evolution, Ecology and Organismal Biology

EEOB**Autumn 2024 Semester****5360 Biodiversity Informatics***Previous Number: 6340***U G 3**

This course will provide students with the knowledge and practical skills to access, manage, analyze, and utilize biodiversity data for scientific research and conservation efforts. The course covers a comprehensive understanding of diverse biodiversity data sources and introduces a range of analytical, statistical, and computational tools essential for biodiversity data analysis.

Prereq: [3410](#), or [3310.01](#), or [3310.02](#); or permission of instructor.

Educational Studies: Qualitative Research in Educ

ESQUAL**Summer 2024 Term****8289 Digital Tools in Qualitative Research***Previous Number: 6269***G 3**

Seminar and workshop in using digital tools for qualitative research. Uses of audio, video, and text technologies in qualitative fieldwork; uses of web-based media and on-line documents.

Prereq: 8280 or EduPL 8280, or permission of instructor.

Medieval and Renaissance Studies

MEDREN**Autumn 2024 Semester****3217 Shakespeare's London***Previous Number: 2217***U 3***Campus: COL [LMA](#)
[MNS](#) [MRN](#) [NWK](#) [WST](#)*

A study of the history, society, and culture of London in the age of Shakespeare and the Tudors and Stuarts from the Protestant Reformation to the Great Fire (1666).

Prereq: [Not open to students with credit for Medieval 2217](#). GE culture and ideas and diversity global studies course. [GE theme lived environments course](#).

New Course

Anatomy

ANATOMY**Summer 2024 Term****4900 Clinical Anatomy for Undergraduates****U 2**

Regional study of the human body emphasizing clinical correlations and physical examination. The course is aimed at integrating previous human anatomy knowledge with clinical anatomy through lectures, lab demonstrations on prosected human donors, and hands-on clinical testing activities. This course can serve as an anatomical foundation for undergraduate students considering health professions. Recommended for students in all pre-health professions.

Prereq: 2300, or 3300, or permission of instructor.

Art Education

ARTEDUC

Autumn 2024 Semester

2222 Arts Careers: Career Exploration & Development in the Arts

U 1

Students will be introduced to a wide range of professions that involve the Arts. Students will analyze and reflect upon their personal traits and size-up the work experiences and daily routines of arts organizations, their structures, and various arts professionals. Students will explore ways for identifying and obtaining work experiences in the arts, as well as the details of job seeking. This course is graded S/U.

Autumn 2024 Semester

5681 Black Art in America: Arts and Cultural Policies from Reconstruction to Afrofuturism

U G 3

This course takes a unique approach in how arts management, arts entrepreneurship, cultural production, and cultural organizations are studied. This is done by looking at the decisions made, and practices and policies employed, by Black Americans in the arts throughout the complex, and often problematic, history of the United States.

Autumn 2024 Semester

7712 Field Methods

G 3

Students will learn to collect and analyze qualitative data from participant observation and in-depth interviews. Each student will gain significant experience designing, conducting, analyzing, and writing up their own independent research.

Aviation

AVIATN

Autumn 2024 Semester

5400 Access and Retention in Aviation and STEM Workforces

U G 3

This course is an analysis of what it takes to create and sustain a diverse and inclusive workforce in STEM based industries by engaging with guest speakers and readings to understand how diversity, inclusion, and equity are defined. Aviation and other STEM based fields encounter shortages and struggle to recruit a retain minoritized groups. This course seeks to understand that challenge.

Prereq: Jr, Sr, or Grad standing.

Biomedical Engineering

BIOMEDE

Autumn 2024 Semester

4901.01 General BME Capstone I

U 3

First course in the general BME capstone sequence. Introduction to design principles; needs finding, idea generation, and presentation of projects that include a real-world, medically relevant problem with a focus on potential users. Documentation and technical skills are developed throughout the course.

Prereq: 2001, and concur: 3701; or permission of instructor.

Autumn 2024 Semester

4901.02 Industry BME Capstone I

U 3

Serves as the first installment of the Industry BME capstone sequence. Provides students with a foundational understanding of design principles, emphasizing the application of these principles in the context of solving real-world industry challenges. Students will engage in a structured process that includes needs finding, idea generation, and prototyping with a keen focus on industry end-users.

Prereq: 2001, and concur: 3702; or permission of instructor.

Autumn 2024 Semester

4901.03 Medical Product Development Capstone I

U 3

First course in a culminating BME design sequence for those enrolled in the BS-MS pathway in Medical Product Development (MPD). Introduction to the Biodesign process, focused on opportunity definition, market analysis, and user-centered co-design in collaboration with clinical and corporate partners. Professional and technical skills related to biomedical industries are also developed. Enrollment in BME MPD program is required.

Prereq: 2001; or permission of instructor.

Autumn 2024 Semester

6170 Microscopy in Biomechanics

G 3

Physical principles and modes of light microscopy and atomic force microscopy and their applications for probing biomechanical properties.

Prereq: Grad standing in Engr. Not open to students with credit for MechEng 6711. Cross-listed in MechEng 6711.

Autumn 2024 Semester

6350 Extracellular Matrix in Bioengineering

G 3

Extracellular matrix (ECM) present in mammalian tissue(s) is important for the integrity and tensile strength of the underlying tissue as well as for cell-matrix interactions and matrix mineralization. This course provides an overview of the composition, structure and function of ECM and its application(s) in bioengineering.

Pre-Req: Grad standing in MechEng or BiomedE, or permission of instructor. Not open to students with credit for BiomedE 5359 or MechEng 6359. Cross-listed in MechEng 6359.

Biomedical Informatics

BMI

Autumn 2024 Semester

7050 Meta-Analysis in Health Science Research

G M 3

This course provides students with a comprehensive understanding of meta-analysis principles and methods, practical skills and tools for conducting and evaluating meta-analyses in health research, and the ability to apply meta-analytic techniques to their research.

Business Admin

BUSADM

Autumn 2024 Semester

3360 Impact 360: A Practical Guide to Career and Life Success

U 3

Imagine if you could take a class that teaches you all the practical things you're going to learn after college, but before you leave college...that's the idea behind Impact 360: A Practical Guide to Career and Life Success. This course aims to help students get a jumpstart on their careers and lives after college by teaching them the practical skills for how to achieve holistic life success.

Business Admin: Marketing & Logistics

BUSML

Summer 2024 Term

7396 Consumer Centric Supply Chain

G 3

In this course, we will explore the "ultimate customer" of supply chains, by highlighting consumer trends, consumer expectations, and consumer-facing supply chain contexts, such as retail and last mile logistics.

Summer 2024 Term

7399 MSCM Capstone

G 3

The MSCM Capstone course represents (1) the opportunity to exhibit a broad understanding of the concepts taught and discussed across the MSCM program, (2) apply those concepts to a well-structured problem with associated data, and (3) offer a real and implementable supply chain solution to your organization (or a partner organization), that has the potential to yield measurable performance results.

Business Admin: Operations and Business Analytics

BUSOBA

Summer 2024 Term

7398 MSCM Final-Program Experience

G 1

This 2-day on-campus experience will include a mini-course (8 instructional hours) on leadership, a company visit to include a facility tour and executive presentation (4 hours), Capstone presentations (2 hours) and an executive panel (2 hours). It will also provide an opportunity for the students to interact and network with each other, the faculty and the staff involved in the program.

Classics

CLAS

Autumn 2024 Semester**6001 Proseminar in Classics****G 3**

Prepares new graduate students for research in Classics.

Computer Science and Engineering

CSE

Summer 2024 Term**6012 Introduction to Computer Programming in Java****G 3**

Introduction to computer programming and to problem solving techniques using computer programs; programming lab experience.

Prereq: Permission of instructor.

Earth Science

EARTHSC

Summer 2024 Term**5797.20 Exploring Environmental and Human Health Issues in Japan****U G 3**

A basic introduction to environmental earth science concepts and practice, and exploration of links between environment, human health, and socioeconomic developments with special emphasis on Japanese society, taught during a 2 week international trip to Japan.

Undergrad Prereq: GE foundation writing and info literacy course, and GPA 2.0 or above, and Jr standing. Grad

Prereq: GPA 2.0 or above, and Grad standing.

English

ENGLISH

Summer 2024 Term**2276H Arts of Persuasion****U 4**

Introduction for honors students to the study and practice of rhetoric and how arguments are shaped by technology, media, and cultural contexts.

Prereq: Honors standing, and GE foundation writing and info literacy course. GE theme citizenship for div and just wrld course.

Summer 2024 Term**2276H Arts of Persuasion****U 4**

Introduction for honors students to the study and practice of rhetoric and how arguments are shaped by technology, media, and cultural contexts.

Prereq: Honors standing, and GE foundation writing and info literacy course. GE theme citizenship for div and just wrld course.

Summer 2024 Term**2276H Arts of Persuasion****U 4**

Introduction for honors students to the study and practice of rhetoric and how arguments are shaped by technology, media, and cultural contexts.

Prereq: Honors standing, and GE foundation writing and info literacy course. GE theme citizenship for div and just wrld course.

Summer 2024 Term**2276H Arts of Persuasion****U 4**

Introduction for honors students to the study and practice of rhetoric and how arguments are shaped by technology, media, and cultural contexts.

Prereq: Honors standing, and GE foundation writing and info literacy course. GE theme citizenship for div and just wrld course.

Autumn 2024 Semester

3019 The Language of Place: Interpreting our Surroundings

U 3

This is a course in the rhetorical theory and analysis of space and place as meaningful human product. Students examine the rhetorical purpose and effect of space and place as concept or idea, specific location, as metaphor, metonym, or icon, as local marker or national or global landmark, and learn to appreciate how the visuo-spatial experience of places and spaces profoundly impacts our lives.

Prereq: GE foundation writing and info literacy course. GE theme lived environments course.

Engineering

ENGR

Summer 2024 Term

5797.26 Japanese American Design Experience (JADE)

U G 3

In fields like automobiles, high-speed rail, semiconductors, gaming consoles, and optical/precision equipment, Japan is famous for its technological advancements and engineering marvels. This new course will focus on exploring design, engineering and sustainability in a Japanese cultural context. The class will focus on how education and culture influences design choices and technology in STEM.

Repeatable to a maximum of 6 cr hrs or 2 completions.

Horticulture and Crop Science

HCS

Autumn 2024 Semester

7201 Knowledge Transfer via Extension Activities

G 2

This course is intended for graduate students within CFAES who have an interest in extension and may pursue opportunities as professional practice or specialists in the future. This course embraces a multi-disciplinary approach and invites students to reflect on what it takes to succeed in extension.

History of Art

HISTART

Autumn 2024 Semester

3050 Careers in History of Art

U 1

This one-credit course introduces students to a range of career opportunities that are possible with a History of Art degree. Students learn about the process of finding and applying for internships and jobs, and practice the practical skills of resume writing, cover letters, interviewing, and more. Visiting speakers throughout the term will introduce students to a range of different careers.

This course is graded S/U.

Industrial and Systems Engineering

ISE

Autumn 2024 Semester

5570 Manufacturing Data Processing and Analysis

U G 3

Project-based introduction to manufacturing data streams and methods to process and analyze them towards solving manufacturing problems in process planning and quality control.

Prereq: CSE 1222, 1223, 1224 or 2021; and STAT 3470, 3450, or 3460; and major in Engineering; or permission of instructor. Not open to students with credit for ISE 5194.

Microbial Infection and Immunity

MEDMCIM

Autumn 2024 Semester

5550 Departmental Journal Club - Recent Discoveries in Immunology and Microbial Pathogenesis

U G 1

The Department of Microbial Infection and Immunity Seminar Series will host nationally and internationally recognized speakers on a biweekly basis throughout the semester. This course will educate students in how to prepare for and appreciate these seminars through submission of written-format summary statements.

Repeatable to a maximum of 6 cr hrs. This course graded S/U.

Autumn 2024 Semester

7100 Foundational Discoveries: Pillars in Immunology and Microbial Pathogenesis

G 2

Discussion format class in which faculty-selected articles that are foundational to the fields of immunology and microbial pathogenesis will be presented and discussed. Prior to class, students will submit a half-page written summary of the paper including two questions for the group. Repeatable to a maximum of 4 cr hrs.

Autumn 2024 Semester

7550 Departmental Journal Club - Recent Discoveries in Immunology and Microbial Pathogenesis

G 1

The Department of Microbial Infection and Immunity Seminar Series will host nationally and internationally recognized speakers on a biweekly basis throughout the semester. This course will educate students in how to prepare for and appreciate these seminars through submission of written-format summary statements. Repeatable to a maximum of 6 cr hrs. This course is graded S/U.

Pharmacy

PHR

Summer 2024 Term

2450 A Tough Pill: Health Identity, Disparity, and Discrimination

U 3

In this course, students will analyze how their own identities and the identities of others influence experiences within the American healthcare system. They will learn terminology related to concepts of gender, race, ethnicity, sexuality, socioeconomic status, and other identities and apply them to healthcare practice and health disparities.

GE foundation race, ethnicity and gender div course.

Physiology and Cell Biology

PHYSIO

Autumn 2024 Semester

3204 Human Physiology Laboratory

U 3

This course will teach the principles of human organ system function through hands on application of human laboratory experiments. Further understanding of these organ system functions will be gain through discussion of related disease case studies.

Prereq: A grade of B or above in 3200 or EEOB 2520, and 6 credits for Biological Sciences.

Summer 2024 Term

4999H Undergraduate Independent Research

U 1 - 10

Students will conduct individual, hands-on laboratory research under the direction of a faculty member in the department of Physiology and Cell Biology culminating in a thesis and oral examination. This will involve learning specific laboratory techniques and scientific methods related to the faculty member's biomedical research program.

Prereq: Permission of instructor. Repeatable to a maximum of 20 cr hrs or 5 completions. This course is graded S/U.

Autumn 2024 Semester

8503 Predoctoral Professional Development

G 1

This course introduces students to skills to address academic and professional obstacles in their career development.

Prereq: Permission of instructor. Repeatable to a maximum of 10 cr hrs. This course is graded S/U.

Political Science

POLITSC

Autumn 2024 Semester

3950 Careers in Political Science

U 3

Designed to help students explore different career paths related to Political Science, engage with professionals working within a range of careers, and build a portfolio in preparation for entering the job market

Autumn 2024 Semester**4050 Counting Dollars and Making Change for Nonprofits****U 3**

The nonprofit sector consists of a diverse array of organizations, each with a mission that presents an opportunity to advance society. A central component of moving from aspirations to successes for nonprofit organizations is managing and leveraging financial resources. In this course, students will learn the details of nonprofit finance and how to use this information to achieve mission goals. Recommended: PubAfrs 3140 (Nonprofit Management & Governance).

Autumn 2024 Semester**6541 Professional Development Skills for Public Affairs****G 1**

This class is designed to assist graduate students at the Glenn College by providing them with the tools needed to make them successful in the job search and workforce. This course is also designed for professionals in the workforce to reorient their career towards local, state, Federal and nonprofit public service careers.

Russian**RUSSIAN****Autumn 2024 Semester****3750 [Alter]Native Russia: Indigenous Histories, Cultures, and Politics in Siberia and the North****U 3**

An intersectional study of race, ethnicity, and gender diversity, this course focuses on the histories, cultures, and politics of often neglected Indigenous peoples of Siberia and the Arctic, and to puts them in a comparative perspective with North America and the global context.
GE foundation race, ethnicity and gender div course.

Theatre**THEATRE****Autumn 2024 Semester****5343 Advanced Nonfiction Production****U G 3**

A project-based class aimed at advancing students' nonfiction production skills and improving their ability to engage with industry professionals. The class will take each student through multiple stages of making a documentary film: early production research, documentary core application, budget, pitch deck, fundraising, production, post-production, copyright, and distribution.
Prereq: 5341, or permission of instructor.

Urology**UROLOGY****Summer 2024 Term****4998H Urology Undergraduate Research Course - Honors****U ½ - 3**

An independent-study style course in which pre-medical undergraduate students have the opportunity to assist in the Department of Urology's research projects. Students will be given the opportunity to learn the research process from start to finish. Students will need to receive a signature to enroll in this course. Not open to students under 18 years of age.

Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs or 8 completions. This course is graded S/U.

Remove from Limbo**Anthropology****ANTHROP**

Spring 2025 Semester**3400 Contemporary Views of the Ancient Near East Orientalism, Archaeology and Nationalism****U 3**

Examines the history and impacts of Western archaeological scholarship in the Near East and explores contemporary archaeological practice.

Prereq: Not open to students with credit for 400.

Autumn 2024 Semester**3553 New World Prehistory: Aztecs and their Predecessors****U 3**

Detailed survey of native American prehistory: Examines the ancient civilizations of Mesoamerica, including the Olmecs, Zapotecs, Mixtecs, Aztecs, and Teotihuacan.

Prereq: 2201.

Business Admin: Management & Human Rsrcs**BUSMHR****Spring 2025 Semester****7223 Advanced Topics in Leadership Effectiveness: Strategy Implementation****G 1½**

Study strategy needed for organizational alignment; implementation, execution of strategic priorities; and organizational culture, leadership, structure, communications, compensation, metrics relative to effective execution of strategy.

Prereq: Enrollment in MBA, WP MBA, MLHR or MAcc program or permission of instructor.

Computer Science and Engineering**CSE****Summer 2024 Term****1211 Computational Thinking in Context: Images, Animation, and Games****U 3**

Introduction to computational thinking, focusing on problem solving and programming concepts and skills needed to manipulate digital images and to create interactive graphics, animations, and games; creativity and imagination encouraged.

Education: Teaching and Learning**EDUTL****Autumn 2024 Semester****5120 Arts-Based Integrated Learning****U G 3**

Focuses on using arts-based, inquiry-based, and project-based learning as interdisciplinary, integrated approaches to curriculum and building multiple literacies and supporting multiple learners simultaneously.

Autumn 2024 Semester**5455 Hiphop Literacies****U G 3**

Combines the study of Hiphop Based Education and new literacy studies. Students will investigate Hiphop cultural arts and discourses of everyday life as a form of culturally relevant teaching and learning.

Autumn 2024 Semester**6101 Dramatic Inquiry Across the Curriculum****G 3**

Using drama to extend inquiry-based learning in literacy and content areas.

Repeatable to a maximum of 6 cr hrs.

Autumn 2024 Semester**6912 Research Writing for International and 2nd Language Graduate Students****G 2**

Designed to help international graduate students in preparing a conference paper and in preparing a manuscript for publication.

Prereq: 5902, or qualified status; and permission of instructor. Repeatable to a maximum of 6 cr hrs. This course is graded S/U.

Autumn 2024 Semester

7008 Sociocultural Studies of Teaching and Teacher Education

G 3

A sociocultural look at ways teaching as a profession has been shaped by history, culture, gender; multiple agendas for teacher education; structure of current practice; different programs of reform; studies of teacher education.

Autumn 2024 Semester

7344 Bilingualism and Biliteracy

G 3

Explores research on bilingualism, bilingual communities, and bilingual education, as well as methods for studying bilingualism in social context. Issues are viewed from global perspective, especially language policies and language ideologies.

Autumn 2024 Semester

7348 Linguistic Diversity and Literacy: Varieties of English and Education

G 3

Explores variation in English and its implications for literacy education, focusing on global Englishes, U.S. vernaculars, and English-based Creoles. Course considers use of research for school testing and for the teaching of Academic English.

Autumn 2024 Semester

7356 Advanced Literature for Adolescents

G 3

An evaluation of literature for adolescents and the role it plays in the education of youth.

Autumn 2024 Semester

7374 Sociocultural Theory and Literacy Education and Research

G 3

Examines the core concepts of sociocultural theory, several branches of this work in education, and their implications for contemporary studies of literacy teaching and learning.

Autumn 2024 Semester

7418 Synthesizing Research in Reading and Literacy

G 3

Students gain an in-depth understanding of how to review, analyze, and synthesize research in reading and literacy. The focus is on the process of reviewing and synthesizing research (rather than on the content). Repeatable to a maximum of 6 cr hrs.

Autumn 2024 Semester

7716 Conceptual and Procedural Knowledge in Mathematics Education: Theory, Research, and Controversy

G 3

Examine research on students' learning of conceptual and procedural knowledge. We will carefully examine the nature of each type of knowledge, how they are acquired, how they are used, and how they are related.

Autumn 2024 Semester

7724 Teaching Evolution in Schools

G 3

Focuses on issues, alternative practices, and curricular approaches related to teaching evolution in public schools. Research, court cases, and policies related to the teaching of evolution are examined. Prereq: Coursework in Evolutionary Biology, or teaching licensure in life science; or permission of instructor.

Autumn 2024 Semester

7732 Robotics and Automation for STEM Educators

G 3

An introduction to robotics and automation systems, their applications, and methods of teaching about and with them. Will include experiences related to the design, selection, set-up, and programming of robotic and automation systems.

Autumn 2024 Semester

8313 Research and Theory in Written Composition

G 3

Considers writing in variety of contexts-primary school, middle school, high school, college, and the larger community--from the perspective of research; broader issues of how attention to culture and context can provide more responsive instruction.

Autumn 2024 Semester

8620 Language Teacher Education

G 3

Deals with foreign and second language teacher education program designs with a focus on goals, objectives, programming, and accreditation models. It is designed for those who are majoring in either TESOL or foreign language education.

Prereq: Grad admission as a foreign and 2nd lang ed program major or in an equiv. program related to global ed, multicultural ed, or a foreign language major in one of the OSU lang. dept (e.g., Spanish, German, Chinese).

Geography **GEOG**

Autumn 2024 Semester

3600H Space, Power and Political Geography

U 3

Political geographic thought; territory and territoriality; borders and scale; space, power and uneven development; states and statecraft; and the politics of nations, regions and localities.

Prereq: Honors standing, or permission of instructor. GE soc sci orgs and polities course. GE foundation social and behavioral sci course.

History of Art **HISTART**

Summer 2024 Term

4701 An Introduction to Buddhist Art and Iconography

U 3

Examines how Buddhist art conveys the ideal of human perfection as the ultimate attainment of Buddhist practice.

GE cultures and ideas course.

Summer 2024 Term

5711 Art of India I

U G 3

Art and Architecture of India from Pre-Historic Times to circa 1200.

History **HISTORY**

Autumn 2024 Semester

7680 Studies in the History of Children, Childhood and Youth

G 3

Readings course focusing on the history of children, childhood and youth. The course content will be international, emphasizing cross-temporal and cross-cultural comparisons.

Prereq: Grad standing. Repeatable to a maximum of 15 cr hrs.

Music **MUSIC**

Summer 2024 Term

8872 Qualitative Research in Music

G 3

This course will examine principles of qualitative research design in social sciences and their application to music teaching and learning.

Prereq: Doctoral standing, or permission of instructor.

Public Health: Health Services Management & Policy **PUBHHMP**

Autumn 2024 Semester

8672 **Advanced Topics in Health Policy**

G **4**

Designed for doctoral and advanced masters students in the College of Public Health and other OSU colleges. It will provide students with a solid background of high-level policy scholarship on topics fundamental to the health care system.

Prereq: 7605 or 7640; or permission of instructor.

Welding Engineering

WELDENG

Autumn 2024 Semester

4003 **Principles of Welding Process Control**

U **3**

Study of principles and practical application of control systems and control elements of welding processes.

Prereq: 4001, and enrollment in the WeldEng-BS or MatScEn-BS major; or permission of instructor.

Autumn 2024 Semester

7003 **Principles of Welding Process Control**

G **3**

Study of principles and practical application of control systems and control elements of welding processes.

Prereq: 7001 or 4001, and Grad standing; or permission of instructor. Not open to students with credit for 4003.

Update Course

Accounting and Management Information Systems

ACCTMIS

Summer 2024 Term

4500 **Auditing Principles and Procedures**

U **3**

Basic concepts and standards of auditing; audit procedures and working papers, internal and external audit reports; professional responsibilities of auditors.

Prereq: 3200, or permission of instructor.

African American and African Studies

AFAMAST

Autumn 2024 Semester

2275 **Blackness and the Politics of Sports**

U **3**

The purpose of this course is to assist students in understanding the historical relationship between African Americans & the professional sports industry. We will explore how the intersections of race, gender, ethnicity, & sexuality function in the world of sports & investigate the cultural tendency to praise athletic achievement over educational or career ambitions.

GE foundation race, ethnicity and gender div course.

*Campus: COL LMA
MNS MRN NWK WST*

Anatomy

ANATOMY

Autumn 2024 Semester

4600 **Human Embryonic Development and Birth Defects**

U **3**

Systematic study of the basic embryological development of the human correlated with common birth defects.

Prereq: 2100, 2300, or 3300, or permission of instructor.

Anthropology

ANTHROP

Summer 2024 Term

5797 **Study at a Foreign Institution**

U G **1 - 18**

An opportunity for students to study at a foreign institution and receive Ohio State credit for that work.

Prereq: Permission of dept chairperson. Repeatable to a maximum of 18 cr hrs or 5 completions.

Summer 2024 Term

8193.04 Individual Studies: Research Methods

G 1 - 10

Research methods.

Prereq: Permission of instructor. Repeatable to a maximum of 40 cr hrs or 15 completions. This course is graded S/U.

Summer 2024 Term

8193.07 Individual Studies: Physical Anthropology

G 1 - 10

Physical anthropology.

Prereq: Permission of instructor. Repeatable to a maximum of 40 cr hrs or 15 completions. This course is graded S/U.

Summer 2024 Term

8193.08 Individual Studies: Unclassified

G 1 - 10

Unclassified.

Prereq: Permission of instructor. Repeatable to a maximum of 40 cr hrs or 15 completions. This course is graded S/U.

Summer 2024 Term

8193.09 Individual Studies: Cultural Anthropology

G 1 - 10

Cultural anthropology.

Prereq: Permission of instructor. Repeatable to a maximum of 40 cr hrs or 15 completions. This course is graded S/U.

Summer 2024 Term

8999 Research in Anthropology: Dissertation

G 1 - 18

Research for dissertation purposes only.

Repeatable to a maximum of 40 cr hrs or 18 completions. This course is graded S/U.

Chemistry

CHEM

Autumn 2024 Semester

1208 Foundations 2 of General Chemistry

U 4

CHEM 1208 is second course in a two-course series, for science majors, covering the mole, stoichiometry, chemical reactions, thermochemistry, gases, liquids, and solids, paired with metacognitive learning strategies. CHEM 1208 also includes a laboratory experience, that covers labs from both CHEM 1206 and CHEM 1208 content. Credit for CHEM 1206 and CHEM 1208 is equivalent to CHEM 1210.

Prereq: Chem 1206, and a grade of C- or above in Math 1120, 1130, 1131, 1140, 1148, 1150, or above. Not open to students with credit for 1210, 1220, 1610, 1620, 1910H, 1920H, 1250. GE foundation natural sci course.

Autumn 2024 Semester

5240 Introduction to Protein Modeling

U G 3

This course provides a practical introduction to the theory and methods of molecular modeling and computational chemistry as it pertains to modeling large biological molecules such as proteins. Hands-on experience will be obtained by all attendees in doing molecular mechanics and modeling dynamic systems (molecular dynamics). Recommended prereq: Biochem 4511.

Prereq: 2310, 2510, 2610, or 2910H; or Grad standing; or permission of instructor.

Classics

CLAS

Autumn 2024 Semester

1101 Introduction to Classical Literature

U 3

Introductory survey of the Greek and Roman achievement in literature and its contribution to Western thought; selected readings in English translation in major authors from Homer to Boethius.

GE lit and diversity global studies course. GE foundation lit, vis and performing arts course.

Components: LEC

Comparative Studies

COMPSTD

Summer 2024 Term

4822 Native American Identity

U 3

Campus: COL LMA
MNS MRN NWK WST

Historical and contemporary issues of American Indian identity, primarily in U.S.; focus on American Indian authors, artists, and scholars.

Prereq: English 1110 or equiv., or GE foundation writing and info literacy course. GE cultures and ideas and diversity soc div in the US course. GE theme citizenship for div and just wrld course.

Consumer Sciences: Consumer&Family Financial Servs

CSCFFS

Summer 2024 Term

5260 Financial Planning Applications

U G 4

Family financial management concepts are applied to evaluate financial goals and prepare a comprehensive financial plan for a household.

Prereq: B- or above in 3260, and 4260; and BusFin 3120 or 3220. Prereq or concur: 4270 or 5250, 4280, BusFin 3300, and 3222 or 4221.

Computer Science and Engineering

CSE

Summer 2024 Term

5501 Social, Ethical, and Professional Issues in Computing

U G 1

Social, ethical, and professional issues facing computing professionals; ethical principles; discussion of case studies.

Prereq: 1222, or 1223, or 2231; and 2321; or graduate standing. Not open to students with credit for 2501.

Earth Science

EARTHSC

Summer 2024 Term

2204 Exploring Water Issues

U 3

Campus: COL LMA
MNS MRN NWK WST

Water on Earth, human impacts, and scientific and technological issues related to water resource development and conservation. credit.

GE nat sci phys course. GE theme lived environments course.

Electrical and Computer Engineering

ECE

Autumn 2024 Semester

3030 Semiconductor Electronic Devices

U 3

Semiconductor materials and devices. Crystals; bandstructure; charge carrier statistics; excess carriers, transport; PN junction; Schottky barrier; bipolar and field-effect transistors; optoelectronic devices; nanoscale devices.

Prereq: Physics 1251, 1261, or both 1240 and 1241; and Chem 1210, 1220, or 1250; and enrollment in ECE, MSE, or EngPhysics major. Prereq or concur: Math 2415 or 2174.

Education: Teaching and Learning

EDUTL

Summer 2024 Term

5808 Social Studies Methods I

U G 3 - 4

Integrates methods of teaching social studies with daily field experiences to effect authentic teaching and learning for preservice teachers.

Prereq: Admission to MEd program and completion of content courses.

Autumn 2024 Semester

7030 Transnational Issues and Approaches to Education

G 3

The course will address transnational issues and approaches to education and what theories, practices, and processes are made visible when we center non-Western non-US perspectives.
Prereq: Grad standing.

English

ENGLISH

Summer 2024 Term

2276 Arts of Persuasion

U 3

Introduces students to the study and practice of rhetoric and how arguments are shaped by technology, media, and cultural contexts.

Prereq: GE foundation writing and info literacy course. GE cultures and ideas course. GE theme citizenship for div and just wrld course.

Summer 2024 Term

2276H Arts of Persuasion

U 4

Introduction for honors students to the study and practice of rhetoric and how arguments are shaped by technology, media, and cultural contexts.

Prereq: Honors standing, and GE foundation writing and info literacy course. GE theme citizenship for div and just wrld course.

2367.06 Writing about Disability

U 3

Students will critically examine writing about disability, health, and wellness from a variety of genres (scholarly essays, personal essays, documentaries, comics, music, film) and use their findings to produce creative, scholarly, and professional documents appealing to multiple audiences and rhetorical situations.

Prereq: GE foundation writing and info literacy course. GE writing and comm: level 2 and diversity soc div in the US course. GE theme health and well-being course.

Summer 2024 Term

7889.02 Seminar on Digital Media Studies

G 3

Advanced theoretical and practical approaches to digital media in English studies. Examines such intellectual questions as authorship, narrative, argument, and the nature of texts.

Prereq: Grad standing, or permission of instructor. Not open to students with 6 credits of English 7889.01 or 7889.02. Repeatable to a maximum of 6 cr hrs. This course is graded S/U.

Autumn 2024 Semester**1300 Introduction to Writing for STEM****U 3**

Engr 1300 will introduce students to college writing with an emphasis on information literacy and the technical writing style conventions common to STEM academic and professional fields. Students will examine STEM-related topics in their field and will identify how these involve professional ethics in professional/public communications.

Prereq: EPLR Student Group, or EduTL 1902, or 1902.04, or English Placement Level 4. Not open to students with credit for English 1109, 1110.01, 1110.01H, 1110.02, 1110.02H, 1110.03, or 1167H. GE foundation writing and info literacy course.

Autumn 2024 Semester**2300 Citizenship in Engineering Contexts****U 3**

This course engages with thematic concepts and definitions of citizenship, diversity, equity, inclusion, and justice through historical and contemporary lenses. Students explore the applications and implications of these concepts across a wide range of engineering contexts. Students will approach the writing process from a rhetorical perspective.

Prereq: GE foundation writing and info literacy course. Not open to students with credit for 2301. GE theme citizenship for div and just wrld course.

Autumn 2024 Semester**2301 Exploring Citizenship in Engineering: Integrative Designation****U 4**

Students will use the engineering design and writing processes to define a meaningful problem within specific local or global communities and formulate and propose a solution to that problem. Students will explore themes of diversity and inclusion in engineering and citizenship in a just and diverse world through a comprehensive, semester-long proposal project.

Prereq: GE foundation writing and info literacy course. Not open to students with credit for 2300. GE theme citizenship for div and just wrld course.

Educational Studies: Counselor Education**Summer 2024 Term****6737 Group Counseling****G 3**

Study of group counseling theories and developmental processes for therapeutic and psychoeducational groups.

Prereq: 6731 and 6732, and admission to Counselor Education program.

Educational Studies: Workforce Development & Educ**Summer 2024 Term****5784 Student Teaching in Career and Technical Education****U G 12**

Supervised clinical practice for career and technical education majors in a school setting. Passage required of either the Ohio Assessment for Educators content assessment for Integrated Business, or the Ohio Assessment for Educators content assessment for Family and Consumer Sciences.

Prereq: Major in EHE, or Grad standing.

French and Italian**Summer 2024 Term****3061 Mediterranean Food Cultures****U 3**

Considering it more than a biological necessity, this course approaches food as a way of approaching a region's cultures in an ever-changing world of human and environmental interactions and explores how concerns over agricultural sustainability thus translate into concerns over cultural specificity. Students will examine Mediterranean cuisines through literature, film, music, and social media.

Prereq: Not open to students with credit for 2061 or Italian 2061. GE cultures and ideas and diversity global studies course. GE theme lived environments and sustainability course.

Geography

GEOG

Summer 2024 Term

3755 Geography of the European Union and the Challenges of Sustainability

U 4

Education abroad in Cyprus. Focuses on sustainability challenges facing the European Union, using the UN Sustainable Development Goals as a unifying theme. Cyprus' priority Sustainable Development Goals are a case example. Central to the course is the emphasis on the three pillars of sustainability, environmental, social, and economic, and how they impact efforts toward European integration.

Prereq: Permission of instructor. Not open to students with credit for 3753, 3753.01, 3753.02, or Nursing 3798. GE theme sustainability course.

Hebrew

HEBREW

Autumn 2024 Semester

2700 Introduction to the Hebrew Bible/Old Testament

U 3

Reading and analysis of selected chapters from the Hebrew scriptures and post-biblical Hebrew writings representative of major historical, cultural, and literary trends.

Prereq: English 1110.xx, or GE foundation writing and info literacy course. Not open to students with credit for 2700H, JewshSt 2700, or 2700H. GE lit and diversity global studies course. GE foundation lit, vis and performing arts course. Cross-listed in JewshSt.

Autumn 2024 Semester

2700H Introduction to the Hebrew Bible/Old Testament

U 3

Reading and analysis of selected chapters from the Hebrew scriptures and post-biblical Hebrew writings representative of major historical, cultural, and literary trends.

Prereq: Honors standing, and English 1110; or permission of instructor. Not open to students with credit for 2700, JewshSt 2700 or 2700H. GE lit and diversity global studies course. GE foundation lit, vis and performing arts course. Cross-listed in JewshSt.

History

HISTORY

Autumn 2024 Semester

2046 Christianity and Liberation in the USA

U 3

The intersection of race, ethnicity, and gender with Christian thought and practice in the USA; the emergence of liberation theologies and movements in the late twentieth century in their historical and social contexts.

GE foundation historical and cultural studies and race, ethnicity and gender div course.

Autumn 2024 Semester

7901 Digital History

G 3

Graduate seminar on digital history, focusing on data/text analytics, mapping, network analysis and visualization. Introduces ways in which digital technologies are impacting the history discipline and changing practices, from the collection and preservation of primary sources, to the analysis of those documents with the aid of algorithms, to the representation of the past through digital means.

Prereq: Grad standing.

*Campus: COL LMA
MNS MRN NWK WST*

Health and Rehabilitation Sciences

HTHRHSC

Summer 2024 Term

4200 Analytical Scientific Writing in Health and Rehabilitation Sciences

U 3

This course introduces students to the scientific writing process by exploring data analysis techniques, developing analytical and critical skills to comprehend evidence, synthesizing research design and outcomes, and finally, written communication of the scientific rigor of evidence to advance clinical practice in healthcare.

Prereq: Enrollment in the School of Health and Rehabilitation Sciences.

Human Nutrition

HUMNTR

Summer 2024 Term

4596 Dietetics Seminar

U 1

Advanced professional development issues in dietetics: Leadership, marketing, research, continuing education, licensure, and preparation for dietetic internship/graduate education.

Prereq: 2295; and premajor or major in Dietetics; and Soph standing or above.

Summer 2024 Term

4609 Macronutrients

U 3

Application of biochemistry and physiology to the regulation of carbohydrate, lipid, and protein during fed, fasted and exercise states; nutrient digestion, absorption, metabolism, excretion, requirements, and interactions.

Prereq: C- or above in 2310, or 2410, or AnimSci 3130; and Biochem 2210 and Chem 2310, or Biochem 4511, or BioPhrm 3311 and 3312; and prereq or concur EEOB 2520, or Physio 3101 and 3102, or 3200.

Summer 2024 Term

7999 Research: Thesis

G 1 - 16

Research for masters thesis.

Prereq: Permission of instructor. Repeatable to a maximum of 16 cr hrs or 16 completions. This course is graded S/U.

Jewish Studies

JEWSHST

Autumn 2024 Semester

2700 The Hebrew Bible in Translation

U 3

Reading and analysis of selected chapters from the Hebrew scriptures and post-biblical Hebrew writings representative of major historical, cultural, and literary trends.

Prereq: English 1110.xx, or GE foundation writing and info literacy course. Not open to students with credit for 2700H, Hebrew 2700, or 2700H. GE lit and diversity global studies course. GE foundation lit, vis and performing arts course. Cross-listed in Hebrew.

Autumn 2024 Semester

2700H Introduction to the Hebrew Bible/Old Testament

U 3

Reading and analysis of selected chapters from the Hebrew scriptures and post-biblical Hebrew writings representative of major historical, cultural, and literary trends.

Prereq: Honors standing, and English 1110.xx, or GE foundation writing and info literacy course; or permission of instructor. Not open to students with credit for 2700, Hebrew 2700, or 2700H. GE lit and diversity global studies course. GE foundation lit, vis and performing arts course. Cross-listed in Hebrew.

Mechanical Engineering

MECHENG

Autumn 2024 Semester

6359 Extracellular Matrix in Bioengineering

G 3

Extracellular matrix (ECM) present in mammalian tissue(s) is important for the integrity and tensile strength of the underlying tissue as well as for cell-matrix interactions and matrix mineralization. This course provides an overview of the composition, structure and function of ECM and its application(s) in bioengineering.

Prereq: Grad standing in MechEng or BiomedE, or permission of instructor. Not open to students with credit for BiomedE 5359 or 6350. Cross-listed in BiomedE 6350.

Autumn 2024 Semester

6711 Microscopy in Biomechanics

G 3

Physical principles and modes of light microscopy and atomic force microscopy and their applications for probing biomechanical properties.

Prereq: Grad standing in Engineering. Not open to students with credit for BiomedE 6170. Cross-listed in BiomedE 6170.

Medical Dietetics

MEDDIET

Summer 2024 Term

3100 Human Nutrition and Metabolism

U 3

This course is designed to provide a foundation to prepare future nutrition professionals for dietetic coursework in the MDN major, including nutrition assessment and medical nutrition therapy. This class focuses on the critical aspects of chemical structure, digestion, metabolism, and physiological function and dietary significance of the major energy yielding substances. This course is designed for students applying to the Master of Dietetics and Nutrition program.

Prereq: Chem 1210 and 1220; and Biology 1101 or 1113; and HumnNtr 2310; or permission of instructor.

Microbial Infection and Immunity

MEDMCIM

Autumn 2024 Semester

5500 Departmental Seminar - Recent Discoveries in Immunology and Microbial Pathogenesis

U G 1

The Department of Microbial Infection and Immunity Seminar Series will host nationally and internationally recognized speakers on a biweekly basis throughout the semester. This course will educate students in how to prepare for and appreciate these seminars through submission of written-format summary statements.

Repeatable to a maximum of 4 cr hrs. This course is graded S/U.

Autumn 2024 Semester

7500 Departmental Seminar - Recent Discoveries in Immunology and Microbial Pathogenesis

G 1

The Department of Microbial Infection and Immunity Seminar Series will host nationally and internationally recognized speakers on a biweekly basis throughout the semester. This course will educate students in how to prepare for and appreciate these seminars through submission of written-format summary statements.

Repeatable to a maximum of 4 cr hrs. This course is graded S/U.

Music

MUSIC

Summer 2024 Term

3360 The Brazilian Experience: Surveying Brazilian Culture through Music and Education

U 4

This course offers an in-depth experience into the complex musical culture that exists in the country of Brazil. Beginning with an introduction to Brazilian history, we focus specifically on the evolution of the musical artform the country has experienced in its 500-year history.

GE VPA course. GE theme traditions, cultures, and transformations course.

Nursing Practice

NRSPRCT

Autumn 2024 Semester

8895 Advanced Practice Nursing: Final Professional Seminar

G 1

This course will prepare APRN students for transition to advanced nursing practice at the DNP level and provide application of evidence-based practice knowledge, skills, and abilities for advanced practice nurses in the care of specialty population.

Concur: last APRN clinical courses; or permission of instructor.

Nursing

NURSING

Summer 2024 Term

7475 Pharmacology for Nurse Anesthesia Practice

G 4

This course will focus on medications necessary for safe nurse anesthesia practice including pharmacokinetics, pharmacodynamics and pharmacogenomics of medications used for safe anesthesia. A review of emergency and resuscitative medications, fluid/electrolyte replacement, transfusion therapy and drug diversion will be included.

Prereq: Enrollment in the DNP program nurse anesthesia track.

Psychology

PSYCH

Autumn 2024 Semester

5898 Seminar in Behavioral Neuroscience

U G 3

Team-taught seminar on selected topics from contemporary research areas in the field of behavioral neuroscience.

Undergrad Prereq: A grade of C- or above in two of the following courses 4501, 4644, 5613H, 5602, 5603, Neurosc 4100, 4425, 4550, 4623, or 4850; or permission of instructor.

Grad Prereq: Grad standing; or permission of instructor.

Public Affairs, John Glenn College

PUBAFRS

Autumn 2024 Semester

3110 Education Policy in a Changing World

U 3

Reviews how political actors and institutions govern K-12 public education in the United States and helps students analyze contemporary education policy debates.

Autumn 2024 Semester

6540 Professional Development Skills: Washington DC

G 1

Public administration professionals face an ever-changing professional landscape in a variety of occupations across the public, nonprofit, and private sectors. This class is specifically taught through the lens of Washington, DC, as it serves students who will intern and take courses in DC next year. Provides tools needed to make students successful in the job search and workforce.

Sociology

SOCIOL

Autumn 2024 Semester

2211S Corrections: An OPEEP Course

U 3

Examines theory and policy, and is comprised of OSU students and prison inmates with class meetings held in a local state prison. Though course is repeatable, only one iteration will count for GE credit.

Prereq: Permission of instructor. Repeatable to a maximum of 6 cr hrs. GE service learning course.

Autumn 2024 Semester

3306 Sociology of Poverty

U 3

*Campus: COL LMA
MNS MRN NWK WST*

A study of low-income peoples, especially concerning the effect of poverty on them, and their consequent social participation.

GE diversity soc div in the US course. GE theme citizenship for div and just wrld course.

Social Work

SOCWORK

Summer 2024 Term

6188 Preparing for Field Education

G 1

This course is designed to prepare students for a successful and meaningful field education experience. By providing an orientation to field education, policies and procedures, training on resource acquisition, safety in the field, mental wellness, resilience and self-care, students will be ultimately prepared to be active learners and leaders in field.

Prereq: MSW I standing. Repeatable to a maximum of 3 cr hrs. This course is graded S/U.

Spanish

SPANISH

Summer 2024 Term

1113 Intensive Spanish III for Heritage Learners

U 4

This course builds on Heritage learners' prior knowledge and skills of spoken and written Spanish, expanding on their ability to communicate in a variety of contexts. It employs a multifaceted approach that foment the development of the four skills (listening, speaking, reading, and writing). This course requires consistent attendance, pre-class preparation, and active in-class participation. Course is not open to second language learners of Spanish (SLL).

Prereq: 1102, or 1155, or equiv., or Spanish Placement Level 7. Not open to students with credit for 1103.51, 1113, 2202.01, 2202.51, or 2213. GE for lang course. GE world languages course.

Summer 2024 Term

2213 Spanish IV for Heritage Speakers

U 3

This course identifies and expands on Spanish heritage students' diverse identities and bilingual range through grammar review, vocabulary building, spelling and punctuation, and the development of composition skills. Listening, speaking, reading, and writing are emphasized through readings, written essays, and oral presentations. A grade of C- or above is required to move on to Spanish 3000-level. Not open to native, non-native, or non-heritage speakers of this language through regular course enrollment or EM credit.

Prereq: A grade of C- or above in 1103 or 1113; or Spanish Placement Level 6. Not open to students with credit for 2202, or 3000+ level courses in the major or minor program. This course is available for EM credit.

Summer 2024 Term

5660E Seminar in Latin American Literatures and Cultures

U G 3

Intensive study of a major theme, author, literary or cultural problem related to Latin America. Required for students completing the Latin American Concentration of the Spanish major. Only one course taught in English at the 4000 or 5000-level may count toward the Spanish Major program.

Prereq: A grade of C- or above in 3450 or 3450H, and honors standing, plus any two of: 4515, 4516, 4555, 4555E, 4556, 4558, 4560, 4560H, 4565H, 4570, 4580, 4595.03, or 5640. Repeatable to a maximum of 9 cr hrs.

Summer 2024 Term

5670E Seminar in LatinX Literatures and Cultures

U G 3

Intensive study of a major theme, author, literary, or cultural problem related to LatinX languages, literatures and cultures. Required for students completing the LatinX track of the Spanish major. Courses outside of the Dept may be considered for the Concentration requirement with Dept approval, the student will not exceed the max of 2 total courses taught in English for this Concentration.

Prereq: A grade of C- or above in 3450 or 3450H, and honors standing, and any two of: 4542, 4557.10, 4557.20, 4558, 4570, 4582, 4689S, 5201, 5202, 5203, 5389, 5461, 5620; Anthrop 3419; CompStd 3360, 4804; English 4588; HCS 3380. Repeatable to a maximum of 9 cr hrs.

Veterinary Biosciences

VETBIOS

Autumn 2024 Semester

8811 Advanced Systemic Pathology 2

G 2

Advanced pathology covering the reproductive, endocrine, ophthalmic, and cardiovascular systems of domestic animals.

Prereq: VetBios students in the Combined Pathology Residency/PhD program, or DVM students; or permission of team leader. This course is graded S/U.