

August 2024

Course Subject Change

Teaching and Learning Inclusive STEAM

TLISTEM

Spring 2025 Semester

Previous Subject: [EDUTL](#)

5506 Reading and Writing Braille

U G 3

This course provides future teachers of the visually impaired an efficient, learn-by-doing experience to attain mastery of the literary braille code and to develop positive attitudes toward this valuable medium. The essential features and rules of usage of the braille code as published in The Rules of Unified English Braille (UEB), 2nd Edition (2013) are presented.

Prereq: Not open to students with credit for EduTL 5506.

Spring 2025 Semester

Previous Subject: [EDUTL](#)

5507 Visual Processes

U G 3

Introduces students to the historical foundations, laws, and regulations that effect students with visual impairments. Students will also learn about anatomy and physiology of the eye, diseases, disorders, and eye specialists' reports.

Prereq: Not open to students with credit for EduTL 5507.

Spring 2025 Semester

Previous Subject: [EDUTL](#)

5508 Modes of Communication and Instructional Materials for Students with Visual Disabilities

U G 1

Continuation of the examination of expressive modes of written communication with a focus on the Nemeth Code for mathematics and science. Knowledge of teaching strategies for mathematics is also studied.

Prereq: 5505. Not open to students with credit for EduTL 5508.

New Course

Anatomy

ANATOMY

Spring 2025 Semester

4350 Introduction to Subdisciplines of Human Anatomy

U 2

Advanced undergraduate study of the structure of the human body through introduction to histology, embryology, neuroanatomy, and clinical correlates.

Prereq: 2300, or 3300.01.

Arts and Sciences

ARTSSCI

Spring 2025 Semester

1200 Designing Your Life

U 1

Craft your future with Design Thinking! Discover yourself, your goals, and your path. This course will help you think about what you want out of life, based on your interests, strengths, and values. Explore your college purpose, feel confident about your major, and craft a strong preliminary post-graduation plan.

Repeatable to a maximum of 2 cr hrs. This course is graded S/U.

Spring 2025 Semester

2000 Designing Your Career Experience

U 1

Are you unsure about whether an internship is right for you? Do you know how to find career-building opportunities (like internships) that align with your values and goals? Are you considering graduate school, but not sure how to prepare? This course provides you with practical tools, resources, and strategies to get the most out of any career-building opportunity.

Prereq: Fresh or Soph standing. Repeatable to a maximum of 2 cr hrs. This course is graded S/U.

Spring 2025 Semester

3000 Designing Your Life After College

U 2

Could you use help creating a thoughtful career plan? This course connects you directly with career resources, tools, and mentors, and helps you identify the skills or experiences you need to be competitive in the world of work. You will complete a micro-internship, industry-specific course, or certification that will give you the competitive edge you need to break into your field of interest.

Prereq: Jr or Sr standing. Repeatable to a maximum of 4 cr hrs.

Spring 2025 Semester

4000 Designing Your Career Launch

U 2

Are you getting ready to graduate and wondering how to make meaning of your time at Ohio State? This course helps you reflect upon your time in college and connect it to your post-graduation plans. You will also directly connect with OSU alumni and industry partners to network and provide consultation services to their fields, thus earning academic credit for a micro-internship experience.

Prereq: Jr or Sr standing. Repeatable to a maximum of 4 cr hrs.

American Sign Language

ASL

Autumn 2024 Semester

3450 Life experiences of Deaf Children

U 3

Life Experiences of Deaf Children, taught in ASL, delves into the multifaceted experiences of deaf children, including language development, family dynamics, educational opportunities, communication strategies, and social-emotional development. Students will explore a variety of perspectives to learn about challenges and opportunities deaf children encounter. There will be required field trips.

Prereq: A grade of C- or above in ASL 2104.

Classics

CLAS

Autumn 2025 Semester

6002 Classics Professionalization Seminar

G 2

Introduction to the academic profession of Classics and its culture.

Prereq: Grad standing in Classics, or equivalent.

Medicine, College of

MEDCOLL

Autumn 2024 Semester

7193.01 Obstetrics & Gynecology Independent Studies

G 1 - 12

This course provides an opportunity for individualized study in the fields of immunology, microbiome, and cervical cancer. This course serves as a supplement to prior course work for students enrolled in the T32 ARTIST (Advanced Research Training in Immunology for Surgical Trainees) program receiving a Masters of Medical Science.

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

Pharmacy

PHR

Spring 2025 Semester

7220 Introduction to the Pharmaceutical Industry

P 2

This course provides students with a broad background on the pharmaceutical industry, from drug discovery through commercial with a focus on Clinical Development activities. The course will include content on the regulatory bodies / regulations that govern the activities of the industry as well as how we can compliantly work within these expectations.

Prereq: 2nd year standing or above in the PharmD program; or permission of instructor.

Spring 2025 Semester

7240 Introduction to the Pharmaceutical Industry

P 2

This course is designed to provide students with a broad background on the pharmaceutical industry, from drug discovery through commercial with a focus on Clinical Development activities. The course will include content on the regulatory bodies / regulations that govern the activities of the industry as well as how we can compliantly work within these expectations.

Prereq: 2nd year standing or above in the PharmD program; or permission of instructor.

Physics

PHYSICS

Autumn 2024 Semester

2100 Physics and Technology for Future Presidents

U 4

Using physics concepts and scaling laws, students will explore problems of societal importance, including energy security and sustainability, global warming, space technologies, and quantum physics. This will establish a knowledge base for future leaders in government, companies, and organizations who must adapt to an ever-changing world where technologies play a critical role.

Prereq: Math 1075 or above; or Math Placement Level N; or permission of instructor. GE theme number, nature, mind course.

Veterinary Clinical Sciences

VETCLIN

Autumn 2024 Semester

7130 Open Door Veterinary Care Certificate

V ½

This asynchronous online course will allow students to learn about how to improve pets' access to quality care while increasing your veterinary practice sales.

This course is graded S/U.

Autumn 2024 Semester

7729 Small Animal Spectrum of Care Case Based Reasoning

V 2

This course will challenge students to apply clinical reasoning frameworks to more deeply analyze and learn from "real-life" Spectrum of Care cases. This course will provide both deeper analysis and discussion of cases provided in their core courses but will also provide additional case exposures for additional clinical reasoning practice.

This course is graded S/U.

Place in Limbo

Anatomy

ANATOMY

Summer 2024 Term

6540 Regional Dissection for Anatomy Majors

G 2 - 4

Guided regional human cadaveric dissection for Anatomy graduate students in either the Anatomy MS or PhD programs. The course allows for focus on a specific region of human anatomy dissection. Allow for 4-8 hours/week of lab dissection. Instructor permission & Anatomy 6900 are required to enroll.

Prereq: 6900, enrollment in the Anatomy MS or PhD program, and permission of instructor. Repeatable to a maximum of 12 cr hrs or 6 completions.

Athletic Training

ATHTRNG

Summer 2024 Term**6540 Practicum IV Clinical Integration: Primary Care****G 1**

The last of a 4 course clinical skills practicum series assessing student competence in select clinical care skills. Course will focus on assessment of clinical knowledge and skills related to applying a patient centered approach to diagnose, manage, and treating acute and chronic illnesses and diseases. Assess students' ability to work in collaboration with physicians and other providers.

Prereq: 6150 and 6530.

Bioethics**BIOETHC****Summer 2024 Term****2020 Bioethics in Film, Media & Society: Explorations in Culture and Biopolitics****U 3**

This course is designed as a forum for identifying and discussing moral, societal, and political issues in bioethics as represented through various forms of moving-image culture, primarily in film but also including still photography, television, and digital media.

Biomedical Engineering**BIOMEDE****Summer 2024 Term****4711 Bioimaging Lab****U ½**

Hands-on lab that teaches students technical skills associated with Bioimaging. Lab components include hypothesis testing and analysis, computer simulation, lab safety and instrument training, and technical communication.

Concur: 4110, or permission of instructor.

Summer 2024 Term**4713 Biomaterials Lab****U ½**

Hands-on lab that teaches students technical skills associated with Biomaterials. Lab components include hypothesis testing and analysis, computer simulation, lab safety and instrument training, and technical communication.

Concur: 4310, or permission of instructor.

Summer 2024 Term**4714 Biomechanics Lab****U ½**

Hands-on lab that teaches students technical skills associated with Biomechanics. Lab components include hypothesis testing and analysis, computer simulation, lab safety and instrument training, and technical communication.

Concur: 4410, or permission of instructor.

Summer 2024 Term**5120 Biomedical Optics****U G 3**

Introduction of light-tissue interaction, optical imaging, and spectroscopy.

Prereq: 4110 or equiv, and Sr standing; or Grad standing; or permission of instructor. Not open to students with credit for 612.

Summer 2024 Term**5668 Biomedical Microtransducers****U G 3**

Examination of the Micro-Electro-Mechanical-Systems (MEMS) as a tool for detecting signals or performing functions for biomedical research and clinical purposes.

Prereq: Sr or Grad standing in Engineering, or permission of instructor. Not open to students with credit for 768.

Business Admin**BUSADM**

Summer 2024 Term**3531 Entrepreneurship and Innovation: General, Startup-Based Entrepreneurship****U 3**

Transformation of knowledge captured through creative, person-centered design into conceptual, viable, commercial concepts in the area of product/service based general entrepreneurship and entrepreneurial startups. Examination of a variety of business models appropriate for commercializing product/service based conceptualizations.

Prereq: 3510, and Design 2700 and MechEng or ISE 5682.

Business Admin: Marketing & Logistics**BUSML****Summer 2024 Term****4389 Logistics Technology - ERP Systems****U 1½**

Introduction to enterprise resource planning (ERP) systems with emphasis on understanding the differences between the major ERP systems on the market and using an ERP system to complete exercises for common business functions.

Computer Science and Engineering**CSE****Summer 2024 Term****1114 Introduction to Databases Using MS Access****U 1½**

Database concepts and techniques for efficient/effective data handling, computational analysis and decision support.

Prereq: Not open to students with credit for 1111, 1112, or 2111.

Summer 2024 Term**5235 Applied Enterprise Architectures and Services****U G 3**

Modeling/analysis of complex enterprise architectures; enterprise patterns (workflow, broker, warehousing); methods for service performance (lean, ontologies, data mining, etc.); emerging topics in semantic cyber-infrastructures, social computation.

Prereq: 5911 (758 and 762), 5912 (786), 5913 (682), 5914 (731), 5915 (772), or 778.

Electrical and Computer Engineering**ECE****Summer 2024 Term****2051 Introduction to Discrete Time Signals & Systems Lecture****U 2½**

Introduction to sampled time signals and linear time invariant sampled time systems. Lecture only.

Prereq: 2000, or 2060, or 2061 and 2067. Prereq or concur: Math 2174 or 2568. Not open to students with credit for ECE 2100, 2100.01, 2100.04, 2104, 2110, or 2050.

Summer 2024 Term**2061 Introduction to Digital Logic for Transfer Students Lecture****U 2½**

Lecture-only component of ECE 2060, for transfer students. Introduction to the theory and practice of combinational and clocked sequential networks.

Prereq: Math 1152 or 1161.01 or 1161.02 or 1172 or 1181H, and Physics 1250, 1250H or 1260, and CSE 1222 or 2221 or Engr 1281.01H or 1281.02H or 1222; and Engr 1182.01 or 1182.02 or 1182.03 or 1282.01H or 1282.02H or 1282.03H, or Engr 1186 and 1187 and concur: 1188 concurrent, or 1187 and 1188 and concur: 1186, or major in CIS or CIS-PRE; and CPHR 2.00 or above. Not open to students with credit for 2000, 2000.02, 2001, 2010, or 2060.

Summer 2024 Term**2301 Electrical Circuits and Electronic Devices Lecture****U 2½**

Introduction to circuit analysis; circuit analysis concepts and mechanical systems analogies; theory and applications of electronic devices; operational amplifiers; electrical instruments and measurements. Lecture portion only.

Prereq: Physics 1251 or 1261, and Math 1172 or 1544 or 2153 or 2162.01 or 2162.02 or 2182H or 4182H, and CPHR 2.0 or above, and enrollment in College of Engineering. Not open to students with credit for 2300, or students majoring in ECE.

Summer 2024 Term

3900 Capstone Design I

U 1

Fundamentals of the engineering design process. Design principles and methodology. Project management during design.

Prereq: Sr standing and enrollment in the ECE major. Prereq or concur: 3090. Not open to students with credit for 4900, 4900H, 4901, Engr 4901, 4903, 5901.01, or 5901.02H.

Summer 2024 Term

4900H Design II with Honors Thesis Project

U 3

Application of design principles and methodology to conceptual and detailed technical design, implementation and testing, culminating in a capstone design project.

Prereq: Honors standing, and permission of department, and: Option 1: 2560, 3010, 3020, 3027, 3030, 3040, 3050, 3090, 3900, and Sr standing, and enrollment in Electrical Engineering Program of Study (EES subplan) of the ECE major. Prereq or concur: 3080 or Philos1332. Option 2: 2050 or 2100; 3020, 3027, 3090, 3561, 3567, 3900, CSE 2231, and 2451, and Sr standing, and enrollment in Computer Engineering Program of Study (CES subplan). Prereq or concur: 3080 or Philos 1332, and ECE 5362. Not open to students with credit for 4900, 4901, Engr 4903, or 5902.01.

Summer 2024 Term

5237 Photovoltaics Laboratory

U G 4

Introduction to laboratory techniques for processing and fabrication of inorganic and organic solar cells, and photovoltaic testing and measurement techniques to characterize solar cells.

Prereq: 3030 or MatScEn 3271, and enrollment in ECE or MatScEn major; or Grad standing in Engineering, Biological Sciences, or Math and Physical Sciences. Cross-listed in MatScEn.

Summer 2024 Term

5465 Advanced Microcomputers

U G 3

An investigation of current microcomputer structures with emphasis on hardware implementation of I/O, direct memory access, interrupts, memory, and microprogramming.

Prereq: 5362, or 662 and 694A, or Grad standing in Engineering. Not open to students with credit for 765.

Summer 2024 Term

7027 Advanced Topics in Analog VLSI Design

G 4

Advanced topics in analog VLSI design, such as integrated data converters, or power management integrated circuits, or high-performance analog circuits. This includes: system and circuit architectures, performance metrics, practical implementations, design considerations in advanced semiconductor processes, chip design projects, and lab characterization.

Prereq: Permission of instructor. Repeatable to a maximum of 8 cr hrs.

Summer 2024 Term

7811 Electromagnetic Interference and Compatibility

G 3

Electromagnetic interference and compatibility, signal integrity in ICs, conducted emissions and electromagnetic radiation susceptibility, and crosstalk and shielding.

Prereq: 6010 (719). Not open to students with credit for 614.

Summer 2024 Term

7841 Advanced Topics in Power Electronics

G 3

Advanced topics of power electronics, beginning with utility and vehicle applications and evolving into advanced circuit topologies and control.

Prereq: 5025 (624). Not open to students with credit for 844.

Summer 2024 Term

7854 Nonlinear and Adaptive Control

G 3

Advanced analysis of uncertain nonlinear systems. Design methodologies for complex interconnected nonlinear systems. Applications of nonlinear and adaptive control design to aerospace and robotic systems.

Prereq: 6754 (5754 or 754) and 6750 (5750 or 750). Not open to students with credit for 857.

Summer 2024 Term**7859 Sliding Mode Control in Electromechanical Systems****G 3**

Sliding modes an efficient tool to control high order dynamic plants operating under uncertainty conditions.
 Prereq: 5750 (750) or MechEng 5372. Not open to students with credit for 859 or MechEng 7259 or 859. Cross-listed in MechEng 7259.

Summer 2024 Term**8851 Advanced Topics in Control Theory****G 3**

Current topics in control theory, optimization, and decision theory.
 Prereq: Permission of instructor.

Educational Studies**EDUCST****Summer 2024 Term****8081 Introductory Seminar: Applied Developmental Science in Education****G 3**

An introductory professional seminar for doctoral students seeking the Interdisciplinary PhD Specialization in Applied Developmental Science in Education (ADS-E).
 Cross-listed in EduTL and HDFS.

Engineering**ENGR****Summer 2024 Term****1100.03 Introduction to Ohio State and Biomedical Engineering****U 1**

Introduction to the University community and College of Engineering: Strategies for successful transition, academic requirements, University procedures, grading system, resources, overview of engineering academic areas of study and services.

Prereq: Enrollment in the College of Engineering. Not open to students with credit for FAES 1100, ArtsCol 1100, ArtsSci 1100, HumanEc 1100, and Exp 1100.

Summer 2024 Term**1100.08 Introduction to Ohio State and Engineering Physics****U 1**

Introduction to the University community and College of Engineering: Strategies for successful transition, academic requirements, University procedures, grading system, resources, overview of engineering academic areas of study and services.

Prereq: Enrollment in the College of Engineering. Not open to students with credit for FAES 1100, ArtsCol 1100, ArtsSci 1100, HumanEc 1100, and Exp 1100.

Summer 2024 Term**7240 Education Research Methods in Engineering****G 3**

Designing engineering educational research projects including authoring proposals for funding agencies.
 Prereq: Grad standing.

Educational Studies: Educational Administration**ESEADM****Summer 2024 Term****6372 Educational Technology Leadership and Administration****G 3**

Overview of the uses of technology in schools. Prepares leaders with knowledge and skills to help shape, evaluate, and supervise technology initiatives in educational organizations.

Prereq: Not open to students with credit for EduPL 707.

Summer 2024 Term**7368 Educational Facility Planning****G 3**

Introduces knowledge, dispositions, and performances necessary for planning, designing, and building schools; explores notions of architectural quality, aesthetic experience, and school as public place.

Prereq: Not open to students with credit for EduPL 958.

Summer 2024 Term

3200H Mindful Resilience: Individuals to Organizations
U 3

The overarching framework for the course is a critical exploration of mindfulness practices and their influence on how individuals and groups function. Exploring the physiological impact of mindfulness on the individual, students will then be able to critically examine and apply these practices to communication, implicit bias, awareness of the self and others.

Food, Agricultural, and Biological Engineering**Summer 2024 Term**

7230 Probabilistic Methods in Engineering Design
G 3

Application of concepts of probability, random variables, statistical inference, multiple regression, multi-variate analysis, correlation analysis and concepts of Bayesian methodology to make reliable engineering design decisions.

Prereq: Stat 3460 (427) or 3470 (427), or permission of instructor. Not open to students with credit for 735.

Summer 2024 Term

7430 Advanced Food Process Design
G 3

An integration of quantitative parameters describing changes in the quality attributes of foods with quantification of the physical changes occurring between the time of raw material harvest or assembly and the point of food consumption. Models to predict changes in quality attributes as a function of process parameters will be developed and demonstrated.

Prereq: FdScTe 5400, 5536, 5600, or FABEng 3481 or 4410, or permission of instructor. Not open to students with credit for FdScTe 7430. Cross-listed in FdScTe.

Health and Rehabilitation Sciences**Summer 2024 Term**

5620 Aging, Accessibility, and Design
U G 3

Analysis and development of product and residential environment design for an aging population using environmental adjustment theories. Students apply Universal Design principles to home modifications.

Prereq: Sr standing, or permission of instructor.

Summer 2024 Term

5660 Long Term Care Services Across the Continuum
U G 4

Introduction to long term care continuum, types of services, regulatory requirements, financing, alternatives, and issues of access, housing, challenges to providing quality care.

Prereq: 5370 or 5650, or Grad standing in HRS, or permission of instructor.

Summer 2024 Term

5700 Multifaceted and Interdisciplinary Perspectives on Adolescent Mental Health
U G 2

This course will develop advanced knowledge of the developmental experience of adolescents and their mental health. It will explore a variety of factors that influence mental health and will include interdisciplinary perspectives on approaches that promote positive mental health among typically developing adolescents and those with diagnosed disorders.

Prereq: Psych 1100 or equiv.

Summer 2024 Term

7410 Advanced Structure and Function of the Human Body
G 5

This course investigates advanced concepts in human functional movement through the application of basic structures and anatomical relationships utilizing an evolutionary and biomechanical perspective as explanatory mechanisms.

Prereq: Any undergraduate Anatomy/Physio course including comparative anatomy or evolutionary anatomy, and permission of instructor.

Summer 2024 Term**5430 Warehouse and Facility Design****U G 3**

Broad exposure to facility planning and design, and distribution center layout and operations. Topics include current material handling equipment technology, and warehouse systems and operations.

Prereq: Calculus, Linear Algebra, and Linear Programming. Not open to students with credit for 742.

Summer 2024 Term**7882 Interdepartmental Seminar for MBLE program****G 1 - 4**

Seminars of general interest to students in the MBLE program, Integrated Systems Engineering, and related fields.

Prereq: Enrollment in the MBLE program, or permission of instructor. Repeatable to a maximum of 8 cr hrs or 4 completions.

Summer 2024 Term**8850 Practice in Operations Research****G 3**

Application of Operations Research methods in manufacturing, financial, governmental, educational, and service organizations. Students work on actual problems of a sponsoring organization and present oral and written reports.

Prereq: 881. Not open to students with credit for 885. Repeatable to a maximum of 6 cr hrs.

Kinesiology: Sport, Fitness, and Health Program**Summer 2024 Term****1144.01 Basketball Women****U 1**

Skill and strategy necessary for playing basketball.

Prereq: Limited to women only. Not open to students with credit for EduPAES 144.01.

Law**Summer 2024 Term****6000 Tax Policy, Inequality and Distributive Justice****L 2**

Tax Policy, Inequality and Distributive Justice studies the intersection of tax policy, the measurement and effects of economic inequality, and different views of distributive justice.

This course is progress graded (S/U).

Summer 2024 Term**6100 Legal Regulation of Cryptotransactions****L 1**

A look at the expanding world of cryptoassets and cryptotransactions and how the regulatory regimes of the world's governments are developing in response.

This course is graded S/U.

Summer 2024 Term**6150 Trump and the Law****L 2**

An exploration of the extent to which the presidency of Donald Trump poses distinctive challenges to longstanding values underlying America's legal system, including the rule of law itself.

This course is graded S/U.

Summer 2024 Term**6775 Designing a Deal****L 1**

The course focuses on the ways lawyers can design a transaction to promote their clients' interests and how different designs can affect the parties' contractual pie.

This course is graded S/U.

Summer 2024 Term**7113 Dispute Resolution in Employment****L 2**

This course offers skills and strategies for effective negotiation and mediation of employment disputes in non-union work environments.

Summer 2024 Term**7321 Consumer Law****L 2 - 3**

In-depth study of consumer rights and remedies as provided by the common law and federal and state statutes, with particular emphasis on the Federal Truth In Lending Act.

Prereq: Not open to students with credit for 657L.

Summer 2024 Term**7507 Black Lives Matter: Law and Culture****L 3**

This course examines law as a site that has defined both blackness and humanness in relationship to African Americans. It also explores black culture to understand various responses to injustice.

Cross-listed in AfAmASt.

Summer 2024 Term**8896.40 Sem: Hot Money****L 2**

Examines the appropriate regulation of investor funds that chase short-term trading gains in capital markets. Current financial news and events are at the forefront of class discussion.

Mechanical Engineering**MECHENG****Summer 2024 Term****5241 Engineering Acoustics****U G 3**

Acoustics applications survey. Wave propagation phenomena. Introduction to human hearing. Mathematics review. Acoustic wave equation, propagation, and metrics. Instrumentation for and evaluation of acoustic measurements. Understanding acoustic sources and sound radiation characteristics. Introductory architectural acoustics, engineering noise control, and psychoacoustics.

Prereq: 3260, or Grad standing, or permission of instructor.

Summer 2024 Term**5502 Engineering Thermodynamics****U G 3**

Technical elective in Engineering Thermodynamics including energy analysis, non-reacting and reacting gas mixtures, combustion, psychrometrics, chemical and phase equilibrium, thermoeconomics and applications.

Prereq: 3501 (501) or 3502, or equiv. Not open to students with credit for 502.

Summer 2024 Term**5541 Heating, Ventilating, and Air Conditioning****U G 3**

Analysis of components and systems for heating, ventilating and air-conditioning.

Prereq: 4510 (510), or Grad standing in MechEng. Not open to students with credit for 641.

Summer 2024 Term**6716 Probabilistic Reliability and Safety Assessment****G 3**

Methods underlying probabilistic risk assessment (PRA) and how they are used in assessing the public health risk of nuclear systems.

Prereq: 4505 (505), NuclEn 4505 (505), Grad standing, or permission of instructor. Not open to students with credit for 5716 (716) or NuclEn 5716 (716). Cross-listed in NuclEn.

Summer 2024 Term**7259 Sliding Mode Control in Electromechanical Systems****G 3**

Sliding modes an efficient tool to control high order dynamic plants operating under uncertainty conditions.

Prereq: 5372 or ECE 5750 (750). Not open to students with credit for 859 or ECE 859 or 7859. Cross-listed in ECE 7859.

Summer 2024 Term**7440 Internal Combustion Engine Modeling****G 3**

Comprehensive coverage of spark-ignited internal combustion engines modeling (fluid dynamics, thermodynamics and combustion). Additional coverage of compression ignition engine modeling and boosting. Prereq: 5530 or 630 or equiv, or permission of instructor. Not open to students with credit for 730.

Summer 2024 Term**7765 Principles and Applications of Tribology****G 3**

Mechanisms of friction, wear, and lubrication ranging from macro- to nanoscale that govern interfacial behavior; applications to friction and wear problems.

Prereq: Not open to students with credit for 765 or 767.

Summer 2024 Term**8514 Optical Techniques in Fluid Flows****G 3**

Fundamentals of lasers, optics, and diatomic spectroscopy, and their application to flow and combustion diagnostics.

Prereq: Grad standing in Engineering or the Sciences, or permission of instructor. Not open to students with credit for 814.

Medicine, College of**MEDCOLL****Summer 2024 Term****7700.04 Interprofessional Practicum in Clinical Care: Aging****G M 2 - 3**

Students experience the breadth, scope, and importance of clinical gerontology in an interdisciplinary team setting through leadership and perspectives of academic and community health and social service providers. This course is graded S/U.

Summer 2024 Term**7711 From the Page to the Bedside: Literature for Physicians****M 1**

Study of literary works that engage with issues of illness, treatment, and medical ethics. Repeatable to a maximum of 12 cr hrs. This course is graded S/U.

Medical Dietetics**MEDDIET****Summer 2024 Term****5825 Advanced Practice in Nutrition Assessment and Counseling****U G 3**

In-depth analysis of the literature and current practice for use in nutrition assessment and counseling for both healthy and medically complex patients with acute, chronic and terminal illnesses.

Medical Laboratory Science**MEDLBS****Summer 2024 Term****5693 Individual Studies****U G 1 - 15**

Guided study or individual readings, research, or experiences related to medical laboratory science.

Prereq: Admission to Medical Laboratory Science program, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions. This course is graded S/U.

Neuroscience Department**NEUROSC****Summer 2024 Term****1100 Neuroscience Survey Course****U 1**

This course will introduce students to the Neuroscience curriculum, explore degree requirements, develop a personalized academic/vocational plan, aid in professional development, familiarize students with academic resources and support services, and establish a relationship with an academic advisor.

Summer 2024 Term**4701 Introduction to Nuclear Power Engineering****U 3**

For advanced undergraduates in nuclear engineering focusing on the physics and engineering of nuclear reactors and nuclear power plants.

Prereq: 4505 (505) or MechEng 4505 (505); or permission of instructor. Not open to students with credit for 701.

Summer 2024 Term**6537 Nuclear Reactor Thermal Hydraulics****G 3**

Focuses on heat transfer and fluid flow applications in nuclear power reactor systems, including heat transfer in LWR fuel rods, coolant, and reactor internals.

Prereq: 6536 (736) or MechEng 6536 (736), or equiv, or permission of instructor. Not open to students with credit for 737 or MechEng 6537 (737). Cross-listed in MechEng.

Summer 2024 Term**6750 Nuclear Materials and Irradiation Effects in Materials****G 2**

Develop an understanding of the interactions of materials with radiation and the resulting changes in materials properties. Discussion of common materials in nuclear materials.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 750 or MatScEn 6750 (750). Cross-listed in MatScEn.

Summer 2024 Term**2934 It's Not Magic, It's Pharmaceutical Sciences****U 3**

This course will serve as an introduction to pharmaceutical and associated healthcare sciences. Topics covered include the history of medicine, drug discovery and development, natural products, and pertinent public health crises. Topics will be presented through connections made to fantasy narratives, such as Harry Potter.

Prereq: Not open to students enrolled in the BSPS program.

Summer 2024 Term**3191 Experiential Learning in Pharmaceutical Sciences****U 1**

Students will begin to develop and solidify their career goals and improve their understanding of career and professional development in the pharmaceutical sciences through hands-on experience in an internship, course lectures and assignments. Students will work closely with supervisors and instructors to explore skills and receive constructive feedback.

Prereq: Permission of instructor, and students must already have secured an internship/experiential opportunity. This course is graded S/U.

Summer 2024 Term**5510 Basics of Pharmaconutrition****U P 3**

Covers basic information on the effects of dietary factors on pharmaconutrition to be utilized as a foundation in solving patient-related cases in pharmacy practice.

Prereq: Undergrad standing, enrollment in the PharmD program, or permission of instructor.

Summer 2024 Term**5700 Introduction to Personalized Therapeutics and Pharmacogenomics****U G P 3**

Exploration of the trend to therapy tailored to the individual patient rather than "one drug fits all;" inter-individual differences in drug responses, with emphasis on genetic and genomic factors; ethical, regulatory, and economic issues that impact drug therapies. Credit for introductory biology course recommended prior to enrollment.

Cross-listed in BioPhrm and CBG.

Summer 2024 Term**7534 Privatization****G 3**

Examines the theory and current practice of privatization against the backdrop of public policy and public administration.

Prereq: Not open to students with credit for 880.07.

Summer 2024 Term**8055 Public Affairs and Public Choice****G 3**

Introduces a series of largely non-mathematical public economics and public choice models. The course is built around a series of powerful small thought models and economic concepts that have important implications for public policy. Uses economic modeling techniques and assumptions to explain the policymaking process. A survey of public choice models that can be applied broadly. Prior coursework in intermediate microeconomics required prior to enrollment.

Public Health: Environmental Health Sciences**PUBHEHS****Summer 2024 Term****3330 Global Pandemics and Public Health****U 3**

This course summarizes major global pandemics, including communicable (such as COVID-19) and noncommunicable (such as obesity) diseases that are current and from recent history, emphasizes public health threat detection and response, reviews related research articles from high impact journals, and provides a platform so that critical and major questions can be discussed and debated.

Public Health: Epidemiology**PUBHEPI****Summer 2024 Term****8413 Molecular Epidemiology of Infectious Diseases****G 3**

Provides students with the knowledge and skills to study disease outbreaks in humans and animals using molecular biology techniques. Recommended basic knowledge of infectious diseases and molecular biology.

Prereq: Permission of instructor. Not open to students with credit for VetPrev 700 or 724. Cross-listed in VetPrev 8700.

Surgery**SURGERY****Summer 2024 Term****7050 Seminar in Practice Management for Surgeons V****G 1**

Provides surgery residents basic information on business principles related to practice of medicine and surgery.

Prereq: Medical Degree and one year of Surgical Residency. This course is graded S/U.

Summer 2024 Term**7190.05 Research Studies in Surgery: Pediatric Surgery****G 1 - 12**

Pediatric Surgery.

Prereq: Permission of instructor. Repeatable to a maximum of 12 cr hrs or 12 completions. This course is graded S/U.

Veterinary Clinical Sciences**VETCLIN****Summer 2024 Term****7711.01 Small Animal Internal Medicine: Advanced Veterinary Clinical Immunology****G 1**

This course will provide an advanced understanding of the principles and mechanisms of the immune system and immune responses in the context of infection, metabolic disease and immunological disorders.

Prereq: Permission of instructor.

Summer 2024 Term

7711.05 Small Animal Internal Medicine: Role of Microbes in Health and Disease

G 1

This course will provide in depth discussion of our current understanding of 1) how the gut microbiome aids in animal health; 2) how the gut microbiome is altered during various disease states; 3) techniques used to define the gut microbiome; and 4) evidence-based modulation of the gut microbiota in clinical patients.

Prereq: Permission of instructor.

Summer 2024 Term

7721 Dialysis Therapy

G 1

Introduction to principles and practice of dialysis and related therapies.

Summer 2024 Term

8601.02 Advanced Topics in Veterinary Psychopharmacology II

G 2

Course includes a review of psychopharmacology, including mechanism of action, side effects of veterinary psychotropic drugs. Metabolism and excretion of drugs, drug ininteractions, and combination therapies and their clinical use also discussed.

Summer 2024 Term

8822.12 Advanced Veterinary Internal Medicine: Otology and Audiology

G 1

Designed to introduce the student to the basics of ear disease and audiology.

Prereq: DVM or equiv; or permission of instructor.

Summer 2024 Term

8824 Congenital Heart Disease in Animals

G 3

An overview and in-depth analysis of congenital malformations of the heart and great vessels in veterinary species. Complex lesions are emphasized, with a focus on the pathophysiology and diagnostic findings. Subject to approval by course leader. Grad students must be in good academic standing, and they must be a current resident in cardiology or with permission of the team leader to register.

Prereq: Permission of instructor.

Summer 2024 Term

8826 Cardiac Catherterization in Veterinary Medicine: Hemodynamics, Angiography & Intervention

G 3

Principles and practices of obtaining hemodynamic measurements; performing angiographic techniques for cardiac diagnosis; and delivery of catheter-based therapies in veterinary medicine.

Prereq: Enrollment in Adv Cardiology Training, or permission of instructor.

Summer 2024 Term

8833.05 Advanced Surgical Sciences: Gastroenterology

G 3

The purpose of this course is to provide information about the pathophysiology, anatomy, diagnosis and treatment of medical and surgical disorders of the gastrointestinal tract.

Prereq: DVM or equiv., or permission of instructor.

Summer 2024 Term

8833.10 Advanced Veterinary Ocular Microsurgical Techniques I

G 2

Cover microsurgical instrumentation, surgical microscopes, care of microsurgical equipment, microsurgical principles and techniques pertaining to the eye. This will include advanced blepharoplastic, corneal and intraocular surgery.

Prereq: Veterinary Ophthalmology Resident, or permission of instructor.

Summer 2024 Term

8833.11 Advanced Veterinary Ocular Microsurgical Techniques II

G 2

Covers microsurgical instrumentation, surgical microscopes, care of microsurgical equipment, microsurgical principles and techniques pertaining to the eye. Will include advanced blepharoplastic, corneal and intraocular surgery.

Prereq: VetClin 8833.10, and Veterinary Ophthalmology Resident; or permission of instructor.

Summer 2024 Term

8871 Small Animal Abdominal Ultrasound

G 1

Basics of ultrasound physics and a review of the normal and abnormal sonographic appearance of abdominal structures in small animals. Introduction to Doppler imaging, contrast ultrasound, and ultrasound-guided aspirates.

Prereq: DVM or equiv; or permission of instructor.

Summer 2024 Term

8894.02 Advanced Comparative Clinical Ophthalmology II

G 1

Familiarizes the student with comparative ophthalmology. Case material will be used to enhance student knowledge of diseases and treatment of the anterior and posterior segment and ocular adnexa.

Prereq: DVM or equiv; or permission of instructor.

Summer 2024 Term

8894.06 Radiology Known Case Conference Intermediate I

G 2

Teach and train radiology graduate students the correct approach to diagnostic image interpretation during their three year program. Radiology graduate students are expected to formulate a ranked list of differential diagnoses and discuss other diagnostic modalities that may aid in further determining a diagnosis. Discussion of pathophysiology will be included.

Prereq: 8894.04 and 8894.05, and Veterinary Diagnostic Imaging residency.

Summer 2024 Term

8894.07 Radiology Known Case Conference Intermediate II

G 2

Teach and train radiology graduate students the correct approach to diagnostic image interpretation during their three year program. Radiology graduate students are expected to formulate a ranked list of differential diagnoses and discuss other diagnostic modalities that may aid in further determining a diagnosis. Discussion of pathophysiology will be included.

Prereq: 8894.04, 8894.05, and 8894.06, and Veterinary Diagnostic Imaging Residency.

Summer 2024 Term

8895.02 Advanced Topics in Veterinary Clinical and Comparative Oncology

G 1

Critical review of literature on topics related to veterinary clinical and comparative (animal and human) oncology and neoplastic pathology review.

Prereq: DVM or equiv; or permission of instructor. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term

8895.05 Advanced Veterinary Endoscopy

G 1

The student will be able to critically understand the standard procedures performed in small animal internal medicine with respect to techniques, required equipment, procedural decision-making, associated risks, and endoscopic interpretation.

Summer 2024 Term

8896.05 Dermatopathology II

G 1

Familiarizes students with interpretation of dermatopathology by pattern analysis. Recognition of subtle changes, cellular infiltrates and infectious organisms will be emphasized to allow development of differential diagnoses.

Prereq: DVM or equivalent, or permission of instructor.

Summer 2024 Term

8896.20 Book Club in Comparative Emergency and Critical Care III-App Respiratory Physiology and SIRS/Sepsis

G 1

Covers the principles and practice of applied respiratory physiology. It will also cover the pathophysiology and management of SIRS and sepsis as relevant to residents in the Emergency and Critical Care residency program.

Prereq: DVMs in residency/Grad programs, or by petition of the team leader.

Summer 2024 Term**8896.21 Book Club in Comparative Emergency and Critical Care IV-Shock, Trauma, and CPR****G 1**

Covers the physiology and management of trauma and shock. It will also cover the principles and practice of cardiopulmonary resuscitation as relevant to residents in the Emergency and Critical Care residency program.
Prereq: DVMs in residency/Grad programs, or petition of team leader.

Remove from Limbo

Civil Engineering**CIVILEN****Summer 2024 Term****5561 Rock Mechanics, Slope Stability and Retaining Structures****U G 3**

Stress-strain properties of soil and rock. Strength of cohesive and non-cohesive materials under a variety of loads. Settlement and stability analyses of soil and rock slopes in for both in-situ and reconstituted materials.
Prereq: 3540, or Grad standing.

History of Art**HISTART****Spring 2025 Semester****4121 Contemporary African Art: 1920 to Present****U 3**

Survey of the development of 20th-Century African Art.
Prereq: Soph standing. Not open to students with credit for 505. GE VPA and diversity global studies course.

Spring 2025 Semester**5060 Alternative Histories****U G 3**

An exploration of the strategies and techniques developed by both academic and non-academic historians to re-imagine the past, with an emphasis on interpreting non-alphabetic traces of the past.

Korean**KOREAN****Autumn 2024 Semester****6454 Korean Literary Traditions****G 3**

Analysis of the development of Korean literary traditions and their significance in the cultural and intellectual evolution of Korean society. All reading materials are in Korean.
Prereq: 2231 or 2451 or equivalent. Completion of Level Three Korean, or permission of instructor. Repeatable to a maximum of 6 cr hrs.

Portuguese**PORTGSE****Spring 2025 Semester****4606 Business Culture and Communication in Portuguese****U 3**

Use of Portuguese in work- and business-related situations; and development of oral and written language to be used in business.
Prereq: Portgse 3401 (Portgese 401), 3402 (402), or 3403 (403); or 5502 (502), and Grad standing; or permission of instructor. Not open to students with credit for Portgese 606.

Religious Studies**RELSTDS****Autumn 2024 Semester****4875 Gender, Sexuality, and Religion****U 3**

Explores intersections of gender, sexuality and religion in comparative and cross-cultural contexts.
Prereq: English 1110 (110) or equiv. Not open to students with credit for CompStd 4875 (515).

Spring 2025 Semester

3530 Russian Cuisine in History, Literature and Culture

U 3

Explores Russian cuisine: its history and its role in Russian literature and culture. We will use a variety of cookbooks and cultural histories as our textbooks, and we will read selections from classical Russian literature to see how writers incorporate ideas of food and cuisine into their works. We will also read critical articles about the relationship between food and culture.
GE cultures and ideas course.

Veterinary Clinical Sciences

Summer 2024 Term

8855.02 Advanced Veterinary Surgery: Gastrointestinal Surgery

G 2

Covers advanced large animal surgical techniques of the gastrointestinal tract. Current literature will be reviewed and pathophysiology and medical case management will also be included in the lecture series.

Remove from Withdrawal

German

Spring 2025 Semester

4670H Cinema and the Historical Avant Garde

U 3

Historicizes cinema's political and artistic roots, concentrating on the perceived and real possibilities of the medium. Fosters critical awareness of "film culture" historically and currently.
Prereq: Honors standing. Cross-listed in FilmStd.

Campus: COL LMA
MNS MRN NWK WST

Update Course

Accounting and Management Information Systems

Autumn 2024 Semester

8780 Doctoral Seminar in Accounting & MIS

G 3

A wide-ranging introduction to the variety of research previously and currently undertaken in Accounting and MIS. Students will be exposed to the ways in which Accounting and MIS are similar to other fields in social and behavioral sciences. They will also be exposed to the unique contribution that Accounting and MIS research can make. It emphasizes the question: what makes for quality research?

Prereq: Enrollment in AcctMIS PhD program.

Autumn 2024 Semester

8783 Doctoral Seminar in Managerial Accounting

G 3

Examines economic modeling that furthers our understanding of the role of accounting in markets and organizations. Considers theoretical frameworks for the role of information in economic interactions and the strategic consequences of accounting information in enduring economic relationships. Topics include: adverse selection, competition and strategic interactions in product markets, etc.

Prereq: Enrollment in AcctMIS PhD program.

Animal Sciences

Autumn 2025 Semester**6060 Advanced Reproductive Physiology****G 3**

This course will cover current reproductive biology issues and research literature, including physiological, molecular and cellular processes in reproduction.

Prereq: 3160, or Grad standing, or permission of instructor.

Anthropology**ANTHROP****Spring 2025 Semester****3350 Native Americans of the Ohio Valley from the Ice Age to the Colonial Period****U 3**

*Campus: COL LMA
MNS MRN NWK WST*

The archaeology and cultural history of Native Americans in the Ohio Valley from the Ice Age to the Colonial Period. The forgotten story of the Native Americans of our region.

Prereq: 2201, or permission of instructor. GE theme traditions, cultures, and transformations course.

Arabic**ARABIC****Spring 2025 Semester****3705 A Thousand and One Nights: Storytelling in Arabic and World Literature****U 3**

We will examine the 1001 Nights as a text that reflects or challenges stereotypes of race, gender, and ethnicity. In this course, students will read the original stories, analyzing assumptions about race, gender, and ethnicity, and also come to understand the process by which the corpus of Nights was preserved, expanded, translated, disseminated, and even forged. This course is taught in English.

GE lit course. GE foundation lit, vis and performing arts and race, ethnicity and gender div course.

Business Admin: Finance**BUSFIN****Spring 2025 Semester****4213 Corporate Restructuring and Bankruptcy****U 1½ - 3**

Corporate finance theories as they relate to spinoffs, restructuring, and bankruptcy.

Prereq: 4211, 4221, 4219, and BusMHR 2292.

Chemical and Biomolecular Engineering**CBE****Autumn 2025 Semester****5260 Petroleum Project Evaluation****U G 3**

Economic analysis and investment decision methods in the petroleum industry; reserves estimation, depletion, petroleum taxation and market regulations, and projects of the type found in the industry; project evaluation case studies.

Undergrad Prereq: Jr or Sr standing in Engineering or Earth Sciences. Grad Prereq: Grad standing.

Civil Engineering**CIVILEN****Autumn 2025 Semester****4011 Civil Engineering Global Capstone I****U 2**

Part 1 of a two semester course sequence satisfying the culminating design component in the curriculum for students in Civil Engineering set in a global development context. Must be taken in sequence with CivilEn 4012, taken as close to graduation as possible.

Prereq: 2410, 2810, 3080, 3130, 3160, 3310, 3510, 3540, 3541, 3700, 4320 or 4350; and EnvEng 3200; and GenEd 1201; or permission of instructor.

Autumn 2025 Semester**4012 Civil Engineering Global Capstone II****U 2**

Part 2 of a two semester course sequence satisfying the culminating design component in the curriculum for students in Civil Engineering set in a global development context. Must be taken in semester immediately following CivilEn 4011 with sequence taken as close to graduation as possible.

Prereq: 4011, and GenEd 1201, and Sr standing; or permission of instructor.

Earth Science**EARTHSC****Autumn 2024 Semester****1101 Natural Disasters in Movies****U 2**

This course provides students with scientific background on earthquakes, volcanic eruptions, tsunami, extraterrestrial impacts and climate change. In this course students will analyze disasters portrayed in popular movies, gain an appreciation of natural disasters beyond movies, understand why natural disasters happen, and explore our ability or inability to control and predict such events. This course does not contribute to the Film Studies major or minor.

Prereq: Not open to students with credit for 1151.

Greek**GREEK****Spring 2025 Semester****2101 Attic Prose****U 3**

Readings in Attic prose authors such as Plato, Xenophon or Lysias.

Prereq: 1103, or Classical Greek Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2102 Homer****U 3**

Selected readings from the Iliad or Odyssey.

Prereq: 1103, or Classical Greek Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2103 The Greek Historians****U 3**

Readings from Herodotus, Thucydides or Xenophon.

Prereq: 1103, or Classical Greek Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2104 Greek Tragedy****U 3**

Readings from the tragedies of Sophocles or Euripides.

Prereq: 1103, or Classical Greek Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2110 The Greek New Testament****U 3**

Studies the language of the Greek New Testament through selected reading passages.

Prereq: 1103, or Classical Greek Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2193 Individual Studies****U 1 - 9**

Intermediate readings in Greek literature.

Prereq: 1103, or Classical Greek Seal of Biliteracy, or permission of instructor. Repeatable to a maximum of 36 cr hrs or 12 completions. This course is graded S/U.

Horticulture and Crop Science**HCS**

Autumn 2025 Semester**3420 Seed Science****U 3**

A study of the physiological processes of seed formation, dormancy, and germination; the production and marketing of seed in commerce. This course provides an overview of the topics that define seed science, including seed formation and development, seed identification, seed processing, seed testing (germination, vigor, dormancy), and seed production practices.

Prereq: 2201, or 2202, or 2204, and 2205.

Latin**LATIN****Spring 2025 Semester****2101 Cicero****U 3**

Readings from Cicero's works, mainly the orations.

Prereq: 1103, or 1890, or Latin Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2102 Vergil****U 3**

Readings from Vergil's poetry.

Prereq: 1103, or 1890, or Latin Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2103 Roman Historians****U 3**

Readings from Caesar, Sallust, Livy, and/or Tacitus' Agricola.

Prereq: 1103, or 1890, or Latin Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2104 Ovid****U 3**

Readings from Ovid's narrative poetry (Metamorphoses and Fasti).

Prereq: 1103, or 1890, or Latin Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2105 Latin Lyric****U 3**

Readings from the poems of Catullus, Horace, Propertius, Tibullus, or the elegiac poems of Ovid.

Prereq: 1103, or 1890, or Latin Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2106 Roman Comedy****U 3**

Readings from the comedies of Plautus and Terence.

Prereq: 1103, or 1890, or Latin Seal of Biliteracy, or permission of instructor.

Spring 2025 Semester**2193 Individual Studies****U 1 - 9**

Intermediate readings in Latin literature.

Prereq: 1103, or 1890, or Latin Seal of Biliteracy; and permission of department. Repeatable to a maximum of 36 cr hrs or 12 completions. This course is graded S/U.

Modern Greek**MDRNGRK****Spring 2025 Semester****2193 Individual Studies****U 1 - 3**

Individual studies.

Prereq: 1103, or Modern Greek Seal of Biliteracy, or permission of instructor. Repeatable to a maximum of 12 cr hrs or 12 completions. This course is graded S/U.

Near Eastern Languages and Cultures

NELC

Spring 2025 Semester

2244 **Films of the Middle East**
U **3**

Campus: COL LMA
MNS MRN NWK WST

Overview of contemporary films from different Middle Eastern countries; how filmmakers of the region view, present, and construct their countries using particular modes of representation.
Prereq: English 1110; or GE foundation writing and info literacy course. GE VPA and diversity global studies course. GE theme lived environments course.

Nursing

NURSING

Autumn 2024 Semester

2367 **Writing About Healthcare Issues in the United States**
U **3**

Designed to enhance student's critical and analytical reading and writing skills through a study of current health issues in the United States.

Prereq: EduTL 1902, 1902.04, IELP WRITE score of 80, or English Placement Level 4. GE writing and comm course: level 2. GE foundation writing and info literacy course.

Autumn 2024 Semester

2890.01H **Sophomore Honors Seminar I**
U **2**

Discussion of topics relevant to academic, professional, and personal development in nursing.

Prereq: Honors standing, and Soph standing in Nursing.

Philosophy

PHILOS

Spring 2025 Semester

2390 **Ethics and Leadership in a Diverse World**
U **3**

Students will engage with leading scholarship on the justification of authority, democratic citizenship, morally responsible decision-making, and virtue ethics to understand how citizenship in a just and diverse society shapes our ideals and practices of ethical leadership.

GE theme citizenship for div and just wrld course.

Respiratory Therapy

RESPTHR

Autumn 2025 Semester

8289 **Advanced Clinical Practice II**
G **5**

Supervised clinical education and intermediate experiences in areas of advanced professional practice. Students will continue to develop competence with patients of various diagnoses for examination, interventions, diagnosis, development of comprehensive plan of care, goal setting, documentation, consultation, delegation, and communication.

Prereq: Enrollment in Master of Respiratory Therapy (MRT) program. This course is graded S/U.

Social Work

SOCWORK

Spring 2025 Semester

3401H **Research & Statistics for Understanding Social Work Problems and Diverse Populations: Honors**
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 identify, assess, and apply existing bodies of evidence to answer questions about social work problems and diverse populations.

Prereq: Honors standing. Prereq or concur: Math 1060, or 1075 or above, or Stat 1350.01, or Stat 1450.01 or above, or Math Placement Level R or above; and admission to the Social Work major.

Teaching and Learning Education

TLED

Spring 2025 Semester**5030 Spoken English for Academic Contexts****U G 2**

This course is designed for international undergraduates and graduates who would like to improve their oral English proficiency and confidence speaking for academic purposes, as well as their familiarity with the languages and cultures of the U.S. and of OSU. The course is based on the principle that speaking improves only with ample opportunities to speak.

Prereq: Not open to students with credit for EduTL 5030. Repeatable to a maximum of 4 cr hrs.

Teaching and Learning Inclusive STEAM**TLISTEM****Spring 2025 Semester****5510 Basics of Orientation and Mobility****U G 2**

Presents an overview of the major historical events, mobility systems, resources, accessibility, safety, and roles of the O&M provider. Basic O&M techniques and instructional strategies are also provided.

Prereq: Not open to students with credit for EDUTL 5510.

Veterinary Preventive Medicine**VETPREV****Autumn 2024 Semester****7771 Zoo and Wildlife Medicine II****G V 2**

Intended for students who have an interest in advancing their clinical and practical knowledge of zoo and wildlife medicine.

Prereq: 7770; and 1st (second semester), 2nd, 3rd, or 4th yr standing in Veterinary medicine program; or grad standing. This course is graded S/U.

Veterinary Medicine**VMCOLL****Autumn 2024 Semester****6616.01 Veterinary Clinical Skills 1A****V 3**

Practical laboratory, providing students opportunities to become proficient in a wide array of hands-on skills relevant to veterinary clinical practice. Topics include basic surgical principles, general examination, as well as animal handling and management.

Prereq: Enrollment in DVM program. This course is graded S/U.

Welding Engineering**WELDENG****Autumn 2025 Semester****4901 Capstone Welding Design I****U 2**

Group design projects building on all aspects of Welding Engineering.

Prereq: GedEd 1201, and Sr standing in WeldEng-BS major; or permission of instructor.

Autumn 2025 Semester**4902 Capstone Welding Design II****U 3**

Group design projects building on all aspects of Welding Engineering.

Prereq: 4901, and GenEd 1201, and enrollment as a WeldEng-BS major; or permission of instructor.

Withdraw Course**Advanced Computing Center for the Arts and Design****ACCAD**

Summer 2024 Term**4101 Performance and Installation Technology****U 3**

An overview of technologies useful for creating interactive installations and performance systems, using video projection, 3D graphics, environmental sensors and visual programming.

Prereq: Permission of Instructor.

Summer 2024 Term**7001 Virtual Modeling****G 3**

Design and modeling principles of 3D objects, environments and characters for animation, games and visualization.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for ArtsCol 751.

Summer 2024 Term**7002 Synthetic Cinema****G 3**

Concepts and techniques for the combination of recorded and computer-generated media through processes of editing, compositing, motion tracking, virtual sets and other multimedia applications.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for ArtsCol 752.

Summer 2024 Term**7003 Expressive Animation****G 3**

Movement concepts and techniques specific to computer animation including timing, spacing, inverse kinematics/forward kinematics, character motion and advanced animation approaches.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for ArtsCol 750.

Summer 2024 Term**7004 Procedural Shading****G 3**

The application of mathematical models used in computer graphics to mimic light behavior and surface patterns when generating three-dimensional, computer-generated imagery.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for ArtsCol 755.

Summer 2024 Term**7005 Experimental Scripting for Animation in Maya****G 3**

An introduction to scripting in Maya to streamline workflow, exercise control over complex operations and to explore motion graphics through mathematical procedures.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for ArtsCol 759.

Summer 2024 Term**7101 Performance and Installation Technology****G 3**

An overview of technologies useful for creating interactive installations and performance systems, using video projection, 3D graphics, environmental sensors and visual programming.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for ArtsCol 758.

Agricultural, Environmental, and Dev Economics**AEDECON****Summer 2024 Term****3123 Grain Merchandising****U 2**

Principles and practices involved in grain and feed marketing and the theory of grain pricing; economics of grain marketing.

Prereq: Math 1130 or 1148. Prereq or concur: AEDECon 3113.

Summer 2024 Term**3141 Agricultural Cooperatives****U 2**

Basic principles of cooperatives including types of organizations, legal aspects, governance, membership relations, debt and equity financing, organizational and inter-cooperative problems, and distribution of earnings.

Prereq: 2001, 2001H, Econ 2001, or 2001H. Not open to students with credit for 441 or 541.

Summer 2024 Term**4536 Economic Development of Sub-Saharan Africa****U 3**

Issues shaping economic development and stagnation in contemporary Africa, such as population growth, agricultural development, industrialization, trade, structural adjustment and environmental issues.

Prereq: 2001 (200) or Econ 2001 (200). Not open to students with credit for 436 or 536, or IntStds 436 or 4536 (536). Cross-listed in IntStds.

Summer 2024 Term**4538 Latin American Economic Development****U 3**

Public policy and other factors influencing economic growth in Latin America are examined.

Prereq: 2001 (200) or Econ 2001 (200). Not open to students with credit for 438 or 538, or IntStds 4538 (538). Cross-listed in IntStds.

Summer 2024 Term**4539 China's Economic Reforms and Globalization****U 3**

An introductory survey course of economic reforms and globalization in China with emphasis on economic and social transformation, and its integration into the global economy.

Prereq: 2001 (200) or Econ 2001 (200), or permission of instructor. Not open to students with credit for 439 or 539, or IntStds 439 or 4539 (539). Cross-listed in IntStds.

African American and African Studies**AFAMAST****Summer 2024 Term****2085 Exploring Race and Ethnicity in Ohio: Black Ohio in the 19th Century****U 3**

Explores the lives and experiences of African Americans in 19th century Ohio. Sometimes this course is offered in a distance-only format.

Prereq or concur: English 1110.xx, or permission of instructor. Not open to students with credit for History 2085. GE historical study and diversity soc div in the US course. Cross-listed in History.

Summer 2024 Term**2300 Issues in the Contemporary Black World****U 3**

This interdisciplinary course examines contemporary issues affecting people of African descent on the continent and throughout its Diaspora. The course will call upon students to consider how race, ethnicity, national origin, gender, sexuality, and religion affect African-descended people in their daily lives, in cultural productions, and in relation to state power.

GE diversity global studies course.

Summer 2024 Term**2327 Introduction to African Politics****U 3**

Examination of dynamics of nation-building in African countries in transition from colonial dependencies to modern nation-states.

Summer 2024 Term**3308 History of US-Africa Relations - 1900-Present****U 3**

History of the United States' relations with Africa since World War I. Sometimes this course is offered in a distance-only format.

Prereq: English 1110.xx and any History 2000-level course, or permission of instructor. Not open to students with credit for History 3308. GE historical study and diversity global studies course. Cross-listed in History.

Summer 2024 Term**3342H Music, Religion, and Ritual in Africa****U 3**

Survey of variety and interaction of musical and religious expressions in selected African societies, focusing on traditional contexts and contemporary Christian and Islamic examples.

Prereq: Honors standing, and 1101 (101). Not open to students with credit for 342H. GE cultures and ideas and diversity global studies course.

Summer 2024 Term**3361 Psychology of the Black Experience****U 3**

An analysis of personality theories commonly applied to black Americans and the black experience.

Prereq: Not open to students with credit for 361.

Summer 2024 Term**3451 Themes in Francophone African and Caribbean Literature****U 3**

An interdisciplinary investigation of the representations of race, religion, identity, nation, and nationalism in Francophone African and Caribbean literature.

Prereq: Not open to students with credit for 451.

Summer 2024 Term**4460 Theories in Africana Literature****U 3**

Examination of various theoretical perspectives that underlie African and Caribbean literature in both its oral and written expressions.

Prereq: Not open to students with credit for 460.

Summer 2024 Term**4515 Ethnicity, Development and the State in Sub-Saharan Africa****U 3**

Takes a theoretical and comparative historical approach to analyzing problems of development and ethnic conflict in Sub-Saharan Africa.

Prereq: Soph standing or above. Not open to students with credit for 515 or IntStds 4515 (515). Cross-listed in IntStds.

Summer 2024 Term**4557 History of South Africa****U 3**

An examination of the political and social developments in South Africa from the 19th century to the present.

Prereq: Not open to students with credit for 575.

Summer 2024 Term**4561 Topics in Africana Psychology****U 3**

The study of different dimensions of African and African American psychology; topics vary.

Prereq: 3361, or permission of instructor. Not open to students with credit for 561. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term**4584H Literature and Modern Experience in Africa****U 3**

A comprehensive view of the dominant thematic directions of African literature in the European languages, and their formal realization in aesthetic and symbolic terms.

Prereq: Honors standing, or permission of instructor.

Animal Sciences**ANIMSCI****Summer 2024 Term****2500H Freshman Research Seminar: Contemporary Animal Biology Research****U 2**

Exploration of prominent scientists and emerging issues in animal biology research. Only open to students with 60 cr hrs or fewer.

Prereq: Honors standing, or permission of instructor. Not open to students with credit for 299H.

Summer 2024 Term**4189 Field Experience or Field Work****U 3**

Supervised career-related work experience where students are temporarily employed by an organization and put into practice the skills, techniques and knowledge that are important for success in the industry.

Prereq: 3130 (330), and 3140 (310) or 3140H (310H), and 3150 (320), and permission of instructor. Prereq or concur: 3160 (318), 3170 (413), and 3200. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term**5067 Physiology of Lactation****U G 2**

The physiological, endocrine, nutritional, and environmental factors influencing the synthesis and ejection of milk.

Prereq: 3147 (317), or Grad standing, or permission of instructor. Not open to students with credit for 617.

Animal Sciences Technology**ANMLTEC****Summer 2024 Term****2200T Introduction to Animal Sciences****U 3**

Introduction to animal agriculture; its purpose, terms, products, problems, and basic management principles.

Prereq: Not open to students with credit for 210T or AnimSci 200. This course is available for EM credit.

Summer 2024 Term**2400T Sustainable Animal Systems and Marketing****U 3**

Introduction to principles, practices, and marketing of animal products in a sustainable management system.

Prereq: CrpSoil 2200T (220T). This course is available for EM credit.

Anthropology**ANTHROP****Summer 2024 Term****3315 Evolution: Contemporary and Interdisciplinary Perspectives****U 3**

Develop an understanding of the interplay among different disciplinary approaches to evolutionary studies.

Prereq: One Biology, Anthrop, or EarthSc course. Not open to students with credit for 315 or EarthSc 3315 (315). Cross-listed in EarthSc 3315 (315).

Summer 2024 Term**3403 Polynesia and the South Pacific****U 3**

Description and analysis of simple and complex hereditary characteristics in order to evaluate origin, adaptations and affinities of populations in a world region. Prehistory of Polynesia and South Pacific; development of ethnic & biological variation.

Prereq: 2200 (200), or permission of instructor. Not open to students with credit for 402.02.

Summer 2024 Term**3417 Anthropology of China****U 3**

A general survey of the traditional Chinese culture and society; family, kinship, and socio-political organizations; their transformations during the last century.

Prereq: Not open to students with credit for 421.01.

Summer 2024 Term**4650H Research Design and Ethnographic Methods****U 3**

Students learn to study anthropological problems through hands on experience with ethnographic methods, critical discussion of issues in ethnographic research, and design of an ethnographic study.

Prereq: Honors standing. Not open to students with credit for 650H.

Summer 2024 Term**5193.02 Individual Studies: History****U G 1 - 99**

History.

Prereq: Permission of instructor. Repeatable. This course is graded S/U.

Summer 2024 Term**5193.03 Individual Studies: Anthropological Linguistics****U G 1 - 99**

Anthropological Linguistics.

Prereq: Permission of instructor. Repeatable. This course is graded S/U.

Summer 2024 Term

5622 Peasant Society and Culture

U G 3

Comparative study of the history, cultural practices, social organization and economic strategies of the rural proletariat throughout the world.

Prereq: 2202 (202) or equiv, or permission of instructor. Not open to students with credit for 620.03.

Summer 2024 Term

7805.01 North America

G 2 - 27

North America.

Repeatable to a maximum of 27 cr hrs or 14 completions.

Summer 2024 Term

7805.02 East Asia

G 2 - 6

East Asia.

Repeatable to a maximum of 6 cr hrs or 3 completions.

Summer 2024 Term

8193.02 Individual Studies: History

G 1 - 80

History.

Prereq: Permission of instructor. Repeatable. This course is graded S/U.

Summer 2024 Term

8891 Seminars in Cultural Anthropology

G 2 - 27

Seminars in Cultural Anthropology.

Repeatable to a maximum of 27 cr hrs or 14 completions.

Summer 2024 Term

8891.01 Seminars in Cultural Anthropology: Nature of Culture

G 2 - 6

Nature of culture.

Repeatable to a maximum of 6 cr hrs or 3 completions.

Summer 2024 Term

8891.02 Seminars in Cultural Anthropology: Acculturation, Change and Stability

G 2 - 6

Acculturation, change and stability.

Repeatable to a maximum of 6 cr hrs or 3 completions.

Summer 2024 Term

8891.03 Seminars in Cultural Anthropology: Peasant Cultures

G 2 - 27

Peasant cultures.

Repeatable to a maximum of 27 cr hrs or 14 completions.

Summer 2024 Term

8891.06 Seminars in Cultural Anthropology: Theory and Problems in Cultural Anthropology

G 2 - 6

Theory and problems in cultural anthropology.

Repeatable to a maximum of 6 cr hrs or 3 completions.

Summer 2024 Term

8891.07 Seminars in Cultural Anthropology: Ethnographic Field Experience

G 2 - 6

Ethnographic field experience.

Repeatable to a maximum of 6 cr hrs or 3 completions.

Summer 2024 Term**2367 Issues in Arab-American Society, Culture, and Literature****U 3**

Discussion, analysis, and writing about issues relating to Arab-American culture, society, and literature within the context of social diversity in the United States.

Prereq: English 1110 (110) or equiv, and Soph standing or above. Not open to students with credit for 367. GE writing and comm course: level 2 and cultures and ideas and diversity soc div in the US course.

Summer 2024 Term**5702 Arabic Folk Narrative in Translation****U G 3**

Literary and cultural aspects of 1001 Nights and other popular narratives (epics, legends, folktales) in the Arab world.

Prereq: Not open to students with credit for 672.

Summer 2024 Term**6501 Modern Arab-Muslim Thought****G 3**

Examining critically contemporary responses and revisions of Arab and Muslim classical Humanism.

Repeatable to a maximum of 9 cr hrs.

Summer 2024 Term**7891 Teaching Arabic at the College Level****G 3**

Methods and techniques for the teaching of Arabic at the college level.

Prereq: GTA in NELC, or permission of instructor. Not open to students with credit for 801.

Summer 2024 Term**3307 Sculpture: Wood Construction****U 3**

In Art 3307 students will explore various methods of fabrication and construction to make both functional and expressive works out of wood. This course will proceed through basic introduction exercises and then 2 conceptually based projects, one that highlights additive techniques and one that focuses on the human body.

Prereq: 2300. Not open to students with credit for 3007.

Summer 2024 Term**4104 Life Drawing Studio II****U 3**

Intermediate to advanced level course focusing on issues of the figure.

Prereq: 3104, or Art 470 (Au Qtr 2003 and after), or Art 370 (prior to Au Qtr 2003). Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term**5338 Digital Input/Output for Photographers****U G 3**

Learning to control means of input, manipulation while in and output from the computer and encourage the creation of new work.

Prereq: Jr standing, and enrollment in Art major. Not open to students with credit for 695.07.

Summer 2024 Term**5558 Book Arts****U G 3**

Exploration of the history and aesthetics of handmade artist books with emphasis on structure, sequence, and the relationship of image to text.

Prereq: Sr standing in Art, or written permission of instructor. Not open to students with credit for 695.05.

Summer 2024 Term

5881 Odysseus in the Oculus Rift

U G 3

Team taught with faculty from Classics Dept. Students evaluate intersections of ancient and modern technologies that transform mythical experiences of the future. Use Oculus Rift and other new media technologies to create novel interactions of words, perception and the limits of reality. Create virtual worlds and stories that remix traditional narrative patterns through the technologies of tomorrow.

Prereq: Permission of instructor. Not open to students with credit for Clas 5881. Cross-listed in Clas.

Summer 2024 Term

8301 Advanced Video Art I

G 3

Creation and analysis of video artwork; including techniques of video capture, post production, manipulation and critique within the context of art.

Prereq: 2000 (200), 2400, 2501, 2555, 2501, 208, 300.02, Dance 357, HistArt 260, or Theatre 100. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term

8351 Advanced Video Art II

G 3

Theory and practice of creating video artwork. Emphasis on personal expression and experimental approaches.

Prereq: 4001, or permission of instructor. Repeatable to a maximum of 6 cr hrs.

Astronomy

ASTRON

Summer 2024 Term

2161H Solar System Astronomy

U 3

Physical nature of the sun and its family of planets, satellites, comets and minor bodies; gravitation, light, and telescopes. Not recommended for students who plan to continue in astronomy or physics.

Prereq: Honors standing, and Math 1116 (116) or 1148 (148); or permission of instructor. Not open to students with credit for 1140, 1161 (161), 1161H (161H), 2291 (291), or 171. GE nat sci phys course. NS Admis Cond course.

Summer 2024 Term

7890 Topical Seminars in Astronomy

G 1

Focused seminars on topics and methods of contemporary astronomical research.

Prereq: Grad standing in Astron, or permission of instructor. Repeatable to a maximum of 5 cr hrs. This course is graded S/U.

Biochemistry

BIOCHEM

Summer 2024 Term

6764.01 Advanced Biochemistry: Metabolism

G 1½

An advanced treatment of cellular metabolic systems, their regulation, and metabolomics.

Prereq: 5615 (615), Chem 2520 (253), 2550 (255), and 4210 (521), or equiv. Not open to students with credit for 6764.02 (764), Chem 764, or MolBioch 764.

Summer 2024 Term

7775.01 Special Topics in Biophysical Chemistry

G 1½

Advanced study focused on application and problem solving utilizing various biophysical methodologies in the study of the structure, function, and chemical characteristics of biomolecules. Topics may vary depending on student interest and instructor.

Prereq: Coursework in Biochemistry and Physical Chemistry, and permission of instructor. Not open to students with credit for 7775.02 (775).

Summer 2024 Term**8900.02 Advanced Biochemistry: Biomolecular NMR****G 3**

Application of NMR spectroscopy to the study of biological macromolecules. Heteronuclear NMR, product operators, multidimensional spectra, proteins, nucleic acids, structure determination, dynamics, ligand complexes.

Prereq: Grad standing in Biochemistry, Biophysics or Chemistry, or permission of instructor. Not open to students with credit for 8900.01 (905).

Biology**BIOLOGY****Summer 2024 Term****2100 Biological Analysis****U 4**

A case studies approach to biology with emphasis on quantitative and systems analysis. Does not substitute for Biology 1113 or 1114 for majors in the Biological Sciences. Chem 1120 or 1250 and Math 1152 or 1172 recommended.

Prereq: Math 1151, and Soph standing. GE nat sci bio course.

Bioenergy and Water Treatment Management**BIOWMGT****Summer 2024 Term****2020T Bioenergy and Wastewater Technologies****U 4**

A detailed description of technologies employed in bioenergy-generating processes and wastewater treatment. Scientific and technical backgrounds of fermentation technology will be introduced. A critical evaluation of the environmental impacts of organic wastes. Bioreactor design; management of industrial, agricultural, and municipal solid wastes and wastewater will be covered.

Prereq: 2010T; Chem 1110 or 1210. This course is available for EM credit.

Summer 2024 Term**2030T Feedstock Evaluation and Analysis****U 3**

An Introduction to feedstocks used in the bioenergy/bio-products industry, including analytical tools for feedstock evaluation and handling, and logistical and economic aspects of industrial biomass feedstocks.

Prereq: 2010T. This course is available for EM credit.

Summer 2024 Term**2035T Sustainable Bio-Based Technologies****U 3**

The science and economics of composting, recycling, bioremediation, and phytoremediation will be introduced. Biocoverion of organic wastes and plant-derived sugars to value-added non-fuel products (platform chemicals and other bio-products) will be explored through classroom sessions and laboratory experiments.

Prereq: 2010T; Chem 1210. This course is available for EM credit.

Summer 2024 Term**2040T Bioenergy and Water Management Projects****U 3**

This capstone course provides a general overview of bioenergy-generating and wastewater treatment systems with emphasis on planning and logistics, project management, economics, and operations in a real-world setting. Practical applications for managing waste-to-energy projects and wastewater treatment will be emphasized through hands-on and on-site experience.

Prereq: 2020T; 2030T.

Summer 2024 Term**2189T Bioenergy and Water Management Practicum****U 1 - 2**

Supervised practical experience in a relevant work environment-bioenergy laboratory, wastewater treatment plant, biogas plant-with emphasis on developing competencies related to classroom and career activities. A grade of C or better required to meet graduation requirements.

Repeatable to a maximum of 4 cr hrs or 2 completions.

Summer 2024 Term**2193T Individual Studies****U 1 - 3**

Designed to give an individual student an opportunity to pursue special studies not offered in other courses.
Prereq: Permission of instructor. Repeatable to a maximum of 10 cr hrs or 10 completions. This course is graded S/U.

Summer 2024 Term**2194T Group Studies****U 1 - 3**

Designed to give groups of students an opportunity to pursue special studies not offered in other courses.
Prereq: Permission of instructor. Repeatable to a maximum of 10 cr hrs or 10 completions.

Business Admin: Management & Human Rsrcs**BUSMHR****Summer 2024 Term****4325 Labor Relations and Collective Bargaining****U 3**

Examination of basic aspects of labor relations and collective bargaining including labor history, labor law, union structure and governance, labor-management bargaining, and contract administration.

Prereq: 2291 or 2292 (BusAdm 499.01); and 3200 (701), AcctMIS 2200 (211), 2300 (212), and BusMgt 2320 (330), 2321 (331). Not open to students with credit for 761.

Summer 2024 Term**4328 Performance Management****U 3**

Measure and develop performance of individuals and groups to align performance with organization's strategic objectives.

Prereq: 2291 or 2292 (BusAdm 499.01); and 3200 (701), and AcctMIS 2200 (211), 2300 (212), and BusMgt 2320 (330), 2321 (331).

Business Admin: Operations and Business Analytics**BUSOBA****Summer 2024 Term****6220 Data Analysis for Managers****G 3**

Introduction to data analysis and statistics for business. Emphasis on achieving an application-oriented understanding of statistical inference and regression analysis and their use in decision making.

Prereq: Enrollment in MHRM or SMB-Marketing Program. Not open to students with credit for 870.

Business Technology**BUSTEC****Summer 2024 Term****2233T Advertising and Promotion****U 3**

A theory of retail advertising and its practical application, with emphasis on planning, implementation, control, merchandise projection, and supportive promotional techniques.

Prereq: Not open to students with credit for 233T. This course is available for EM credit.

Summer 2024 Term**2248T Introduction to Cooperatives****U 2**

An examination of business organizations including cooperatives and non-cooperatives. Analysis of the role of government in American business, with emphasis on the history, legal basis, organization, and operation of cooperatives.

Prereq: Not open to students with credit for 248T. This course is available for EM credit.

Chemical and Biomolecular Engineering**CBE**

Summer 2024 Term**5777 Introduction to Polymer Engineering at Macro-, Micro-, and Nanoscale****U G 3**

An introduction to nanomaterials and nanotechnology. Important polymeric micro/nanomaterials and structures, and their manufacturing techniques.

Prereq: 3521 (521), MechEng 3500 (500), 4510 (510), MatScEn 2251 (401), or 3151 (526), or permission of instructor. Not open to students with credit for 777.

Chemistry**CHEM****Summer 2024 Term****7370 Nanochemistry and Nanomaterials****G 1½**

Advanced study of nanostructures and nanomaterials, including the basic physics for nanoscience and nanotechnology, synthesis and self-assembly, and nanotechnology in energy conversion and storage.

Summer 2024 Term**7430 Advanced Organic Synthesis****G 1½**

Advanced aspects of organic synthesis/synthetic design, including advanced carbanion chemistry, synthesis of alkenes, special topics in oxidations and reductions, nucleophilic reagents, pericyclic and dipolar reactions, and free radical chemistry.

Prereq: 6430.

Summer 2024 Term**7440 Kinetics, Catalysis, and Transition State Theory****G 1½**

Principles of kinetics, including energy surfaces and transition state theory, rate equations and rate constants, isotope effects, linear free energy relationships, and catalysis for the study of the chemical reactions of organic molecules.

Prereq: 6440.

Communication**COMM****Summer 2024 Term****3149 Foundations of Survey Research****U 4**

Introduces students to the principles, techniques and problems involved in conducting survey research.

Prereq: Stat 1350 (135) or 1450 (145), or equiv. Not open to students with credit for 449 or PolitSc 3549 (449).

Summer 2024 Term**3169 Interviewing****U 4**

Theories and practices of mediated and face-to-face question-asking as communicative tools for understanding others' views of events, information, policies, systems, and technologies.

Prereq: Stats 1350 (135), 1450 (145), or equiv. Not open to students with credit for 672.

Summer 2024 Term**3224 Principles of Civic Journalism****U 3**

The role of traditional practices of journalism in contributing to citizen apathy and disengagement, as well as what can be done to enhance citizen understanding, learning and active participation in democratic society.

Prereq: Not open to students with credit for 424.

Summer 2024 Term**4406 Development of Mass Media in America****U 3**

Major currents and trends basic in the shaping of the mass media in the United States.

Prereq: Not open to students with credit for 406H (606H) or 606.

Summer 2024 Term

4668 Issues in Intercultural Communication

U 3

An examination of insights provided by recent communication theories about the challenges and difficulties resulting when people of different cultures interact.

Prereq: Not open to students with credit for 668.

Comparative Studies

COMPSTD

Summer 2024 Term

5864 Modernity and Postmodernity: Concepts and Theories

U G 3

Introduces key issues and concepts defining modernity; focuses on how modernity has shaped recent and contemporary politics and culture; discussions of globalization.

Prereq: Not open to students with credit for 660.

City and Regional Planning

CRPLAN

Summer 2024 Term

4674 The City as Art

U 3

This course will examine the ways that cities throughout the world integrate arts and culture into their planning, as well as whether being a cultural city can build the brand, draw new residents and attract visitors. We will investigate cultural tourism, urban cultural policy and temporary built culture such as festivals and fairs. Team-taught with faculty in ArtEduc.

Cross-listed in ArtEduc.

Crop and Soil Technology

CRPSOIL

Summer 2024 Term

2411T Grain and Oilseed Crops

U 3

A study of the cultural practices and production principles for grain and oilseed crops.

Prereq: GenBiol 1200T or 1250T or Biology 1113. This course is available for EM credit.

Consumer Sciences: Consumer&Family Financial Servs

CSCFFS

Summer 2024 Term

4270 Retirement Planning and Employee Benefits

U 2

Evaluation of retirement plans and employee benefits with consideration of the interwoven factors of Social Security, pension, private savings, and health insurance.

Prereq or concur: 3260.

Economics

ECON

Summer 2024 Term

1100.03 Economics of the Internet

U 3

Introduction to elementary techniques of economic analysis. Topics include new technologies; operation of markets; online shopping; auctions; trading; the evolution of the world economy; and economic growth. A one-course introduction to economics.

Prereq: Not open to students with credit for 110.03. GE soc sci human, nat, and econ resources course.

Summer 2024 Term

2001.02 Principles of Microeconomics

U 3

An advanced 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: Declared pre-major, major or minor, or permission of instructor. Not open to students with credit for 2001.01 (200), 2001.03H (200H), or AEDEcon 2001 (200). GE soc sci human, nat, and econ resources course. SS Admis Cond course.

Summer 2024 Term

2002.02 Principles of Macroeconomics

U 3

An advanced introduction to the theory of national income determination; economic fluctuations; money; government policy; international economics.

Prereq: Declared pre-major, major or minor, or permission of instructor. Not open to students with credit for 2002.01 (201) or 2002.03H (201H). GE soc sci orgs and polities course.

Summer 2024 Term

2367.01 The American Economy in the 20th Century

U 3

Survey of major economic developments in the American economy during the 20th century.

Prereq: 2001.01, 2001.02, or 2001.03H (200 or 200H), and 2002.01, 2002.02, or 2002.03H (201 or 201H), or equiv, and English 1110 (110). Not open to students with credit for 367.01. GE writing and comm: level 2 and soc sci orgs and polities course.

Summer 2024 Term

3710 Law and Economics

U 3

The ways in which economic theory can be used to understand what the legal system does and where our laws originate.

Prereq: Recommended 2001.01, 2001.02 (200), or 2001.03H (200H). Not open to students with credit for 3710H (271H, 371).

Summer 2024 Term

3710H Law and Economics

U 3

Advanced exploration of the ways in which economic theory can be used to understand what the legal system does and where our laws originate.

Prereq: Honor standing, and 2001.01, 2001.02 (200), or 2001.03H (200H), or equiv; or permission of instructor. Not open to students with credit for 3710 (271H, 371).

Summer 2024 Term

3790 Economics of Crime

U 3

Investigates incentives and deterrents to criminal activity with respect to general economic conditions and analyzes the effectiveness of public policies designed to deter crime.

Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), or equiv. Not open to students with credit for 479.

Summer 2024 Term

3850 Diversity Economics

U 3

Examines race, gender, and ethnicity in labor markets; impact of labor market discrimination and differences in human capital acquisition on labor market outcomes.

Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), or equiv. Not open to students with credit for 485. GE diversity soc div in the US course.

Summer 2024 Term

4100 Evolution of Economic Thought

U 3

Critical analysis of ideas of great economists, factors which influenced those ideas; their impact upon social and economic development of the modern world.

Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201), or 2002.03H (201H), or equiv. Not open to students with credit for 500. GE cultures and ideas and historical study course.

Summer 2024 Term**4200H Money and Banking****U 3**

Organization, operation, and economic significance of our monetary and banking system; special reference to current conditions and problems. Students intending in taking 5200 are encouraged to take it instead.

Prereq: Honors standing, and 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201), or 2002.03H (201H), or equiv. Not open to students with credit for 4200 (520) or 520H.

Summer 2024 Term**4500 Economic Development****U 3**

Empirical and theoretical consideration of long-term economic changes, including changes in industrial structure, technology, and level of national product; emphasis on developing economies.

Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201), or 2002.03H (201H), or equiv. Not open to students with credit for 550.

Summer 2024 Term**4508 Comparative Economic Systems****U 3**

Principles and institutions for economic decision making under capitalism, socialism, communism, and mixed systems; comparison of selected countries.

Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201), or 2002.03H (201H), or equiv. Not open to students with credit for 5150 (615), or 508. GE diversity global studies course.

Summer 2024 Term**4560H Cooperation and Conflict in the Global Economy****U 3**

The economic, social, and political bases for and responses to increasing global economic integration.

Prereq: Honors standing; and 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201), or 2002.03H (201H), or equiv. Not open to students with credit for 4560 (556), 556H, IntStds 4650H (556H), or 4560 (556). Cross-listed in IntStds.

Summer 2024 Term**4600 International Economic Relations****U 3**

Survey of international economic relations; the basis of world trade; commercial and financial policy, particularly of the United States; and recent international economic organization. Students planning on taking 5650 or 5660 are encouraged to take them instead.

Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), and 2002.01, 2002.02 (201), or 2002.03H (201H), or equiv. Not open to students with credit for 5560 (665), 5660 (666), or 560.

Summer 2024 Term**4920 Housing Economics****U 3**

The study of housing markets using the tools of economics; demand and supply, prices and appreciation, ownership and renting, government policy, and brokerage.

Prereq: 2001.01, 2001.02 (200), or 2001.03H (200H), or equiv. Not open to students with credit for 592.

Summer 2024 Term**5150 Economic Transitions in the 20th Century****U G 4**

General survey of economic aspects of developing economies. Transitions from central planning to markets and from underdevelopment to industrialization in the twentieth century are emphasized.

Prereq: 4400 (444), 5410 (641), or Stat 2450 (245), and 4001.01 (501.01), or 4001.02 (501.02), or 4001.03, and 4002.01 (502.01), 4002.02 (502.02), or 4002.03 or equiv; or permission of instructor. Not open to students with credit for 615.

Summer 2024 Term**5650 International Commodity Flows: Theory and Policy****U G 3**

Comparative advantage and the gains from trade; tariffs and other trade restrictions; economic effects of protective policies; U.S. commercial policies; regional economic integration.

Prereq: 4001.01 (501.01), 4002.01 (502.01), 4001.02 (501.02), 4002.02 (502.02), 4001.03, or 4002.03; and 4400 (444), 5410 (641), or Stat 2450 (245) or equivs. Not open to students with credit for 665.

Summer 2024 Term**7790 Urban Economics****G 3**

Application of economic theory to analyze urban economies-- their spatial structure and issues such as residential segregation, government organization, public-good, transportation, sprawl, poverty, and housing. Prereq: 6711 (704, 705), or equiv. Not open to students with credit for 790.

Summer 2024 Term**8189 Teaching Methods in Economics****G 1 - 3**

Combination of lectures, workshops, and practicum for economics PhD students to learn fundamentals of economics instruction applicable to undergraduate courses; may include supervised sessions of teaching in undergraduate courses.

Prereq: EduTL 5050 (505); satisfactory completion of the first-year PhD curriculum in economics and permission of economics director of grad studies. Not open to students with credit for 901. Repeatable to a maximum of 15 cr hrs or 5 completions.

Summer 2024 Term**8824 Monetary Economics****G 3**

Develops monetary economics as a research field and covers a range of topics in the theoretical, empirical, and policy aspects of money, credit, and banking. S/U grade option available only with permission of Grad studies director for Econ.

Prereq: 724 or 809, or permission of instructor. Not open to students with credit for 821.

Summer 2024 Term**8834 Advanced Time Series Econometrics****G 3**

Rigorous treatment of time-series analysis using recent techniques and concepts. Major topics: stationary and nonstationary time series, cointegration and their economic applications. Course topics will vary with instructor's research interest. 8830 (840) is recommended.

Prereq: 732, or 734, or equiv with permission of instructor. Not open to students with credit for 844. Repeatable to a maximum of 12 cr hrs.

Summer 2024 Term**8841 Public Economics I****G 3**

Normative and positive theories of the economic functions of government, covering resource allocation, distributional equity and methods of public demand and supply.

Prereq: 8712 (804, 805), or permission of instructor. Not open to students with credit for 830.

Summer 2024 Term**8842 Public Economics II****G 3**

Theory of taxation and the analysis of tax structures in terms of efficiency, incentives, and distributional consequences. Topics include: social welfare functions, optimal taxation, incentive compatibility and tax avoidance, evasion and incidence. 8841 (830) is recommended.

Prereq: 8712 (804, 805). Not open to students with credit for 832.

Summer 2024 Term**8890 Research Colloquium****G 1 - 4**

Examines the evolving frontier of new concepts and techniques in economics research not covered in standard lecture-oriented field courses. The department selects a research theme on which invited speakers give research lectures and workshops. S/U option available only with permission of Grad studies director for Econ.

Prereq: 8714 (808), or 8724 (809), and 8732 (742), and permission of colloquium organizer. Not open to students with credit for 894. Repeatable to a maximum of 20 cr hrs or 5 completions.

Summer 2024 Term**8891.02 Workshop in Economic Theory****G 1 - 2**

Forum to report and discuss the latest research results by graduate students, faculty members, and outside speakers in general economic and game theory.

Prereq: 8714 (808), and permission of instructor. Repeatable to a maximum of 24 cr hrs or 12 completions. This course is graded S/U.

Summer 2024 Term**8893.02 Workshop in Econometrics****G 1 - 2**

Forum to report and discuss the latest research results by graduate students, faculty members and outside speakers in econometrics and related fields.

Prereq: 8732 (741 and 742), and permission of instructor. Repeatable to a maximum of 24 cr hrs or 12 completions. This course is graded S/U.

Evolution, Ecology and Organismal Biology**EEOB****Summer 2024 Term****5890 General Acarology****U G 2**

An introduction to the morphology, development, and general biology of mites. Laboratory consists of a taxonomic review of the families of Acari.

Prereq: Permission of instructor. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**6320 Principles of Systematics****G 3**

A study of the principles and techniques used in the identification, classification, and nomenclature of organisms.

Prereq: 12 sem cr hrs in EEOB at the 3000-level or above, or permission of instructor. Not open to students with credit for 861.

Summer 2024 Term**7310 Taxonomy of Vascular Plants****G 1 - 4**

Focus on vascular plant taxonomy. Survey groups of seedless vascular plants, gymnosperms, and angiosperms in a phylogenetic context, learning their characters and understanding the character transformations in this part of the tree of life. We will also examine the types of character evidence that plant systematists use to build phylogenetic trees.

Prereq: Permission of instructor. Not open to students with credit for 672.

Summer 2024 Term**7892 Soil Acarology****G 6**

Taxonomy, ecology, and life-history of mites associated with soil and litter.

Prereq: 5890 (Entomol 670), and Biology 1114 (116) or 1114H (116H); or permission of instructor. Repeatable to a maximum of 12 cr hrs.

English**ENGLISH****Summer 2024 Term****2367.01E Language, Identity, and Culture in the U.S. Experience****U 3**

Extends & refines expository writing & analytical reading skills emphasizing recognition of intertextuality & reflection on compositional strategies on topics pertaining to education & pop culture in America. Only one 2367 (367) decimal subdivision may be taken for credit.

Prereq: Honors standing; and 1110.01 (110.01), and Soph standing; or EM credit for 1110.01 (110.01) or equiv; or a declared major in English; or permission of instructor. Not open to students with credit for 2367.01 (367.01), 210, 267, 267H, 301, 303, 367.01, or equiv. GE writing and comm: level 2 and diversity soc div in the US course.

Summer 2024 Term**2367.03H Documentary in the U.S. Experience****U 3**

An intermediate course that extends and refines skills in critical reading and expository writing through analysis of written texts, video, and documentaries. Only one 2367 (367) decimal subdivision may be taken for credit.

Prereq: Honors standing; and 1110.01 (110.01) or equiv, and Soph standing; or EM credit for 1110.01 (110.01) or equiv; or a declared major in English; or permission of instructor. Not open to students with credit for 2367.01 (367.01), 210, 267, 267H, 301, 303, or equiv. GE writing and comm course: level 2.

Summer 2024 Term**4535 Special Topics in Restoration and Eighteenth Century British Literature and Culture****U 3**

Focused study of a major theme and/or critical problem arising from literature Restoration and/or eighteenth century Britain: race and enlightenment, crime and criminals, sex and the city, the culture of sensibility, transatlantic literary culture.

Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 15 qtr cr hrs for 535. Repeatable to a maximum of 9 cr hrs.

Summer 2024 Term**4549 Modern Drama****U 3**

An historical and critical examination of the major developments, personalities, and achievements in the drama of Europe and America since the advent of Ibsen.

Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 549 or 649.

Summer 2024 Term**4552 Special Topics in American Poetry Through 1915****U 3**

This course focuses on themes and problems in the history of American poetry.

Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 10 qtr cr hrs for 552. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term**4560 Special Topics in Poetry****U 3**

Focuses on special topics in the study of poetry. Examples include the dramatic monologue; epic and mock epic; the religious lyric; narrative poetry.

Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 10 qtr cr hrs for 560. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term**4561 Studies in Fictional and Nonfictional Narrative****U 3**

Focused study of specific subgenres of fiction, nonfiction, or relations between such subgenres.

Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 10 qtr cr hrs for 561. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term**4566E Advanced Poetry Writing****U 3**

Advanced workshop in the writing of poetry. This is a class for serious students of creative writing. Admission is by portfolio submission to the instructor.

Prereq: Honors standing, and 2266, and permission of instructor. Not open to students with 9 sem cr hrs of 4566 and/or 4566E. Repeatable to a maximum of 9 cr hrs.

Summer 2024 Term**4573.01E Rhetorical Theory and Criticism****U 3**

Honors embedded experience. Examination of persuasive strategies in a representative selection of genres, such as oratory, news articles, editorials, essays, advertisements, fiction, digital media, and film.

Prereq: Honors standing, and 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level; or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 573.01.

Summer 2024 Term

4575E Special Topics in Literary Forms and Themes

U 3

Honors embedded experience. Focuses on special topics in literary forms and themes. Examples include: ironic forms; the Trojan War in English literature; the hero and the anti-hero; pastoralism and romance.

Prereq: Honors standing, and 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level; or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 10 qtr cr hrs for 575. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term

4576.02 History of Critical Theory II: 1900 to Present

U 3

Study of the history of literary criticism and of special topics in critical theory; study of the developments and basic texts in literary criticism and critical theory from 1900 to the present.

Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 576.02.

Summer 2024 Term

4576.03 History of Critical Theory III: Issues and Movements

U 3

Study of the history of literary criticism and of special topics in critical theory; study of selected issues or movements in critical theory; topics may include feminist theory, postmodernism, narrative theory, mass culture, and queer theory.

Prereq: 6 cr hrs of English courses at the 2000-3000 level, or permission of instructor. A 2367 course in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 576.03.

Summer 2024 Term

4577.03 Folklore III: Issues and Methods

U 3

Study of folk groups & communities, folklore genres, & issues & methods in folklore studies. Theoretical, methodological, & policy concerns in contemporary folklore research. Folklore Minor course.

Prereq: Honors program, and 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 10 qtr cr hrs for 577.03. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term

4578H Special Topics in Film

U 3

Examination of particular topics, themes, genres, or movements in cinema; topics may include particular directors (Orson Welles), periods (The Sixties), genres (horror).

Prereq: Honors program, and 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with 15 qtr cr hrs for 578 or 9 sem cr hrs for 4578 or 4578H. Repeatable to a maximum of 9 cr hrs.

Summer 2024 Term

4585 History of Literacy

U 3

History of literacy in ongoing societies and culture; emphasis on changing ideas and impacts of literacy and its acquisition, uses, and consequences.

Prereq: 10 qtr cr hrs or 6 cr hrs of English at 2000-3000 level, or permission of instructor. 5 qtr cr hrs in 367 or 3 cr hrs in 2367 in any subject is acceptable towards the 6 cr hrs. Not open to students with credit for 4585 (585.02) or CompStd 4565 (585.02) or History 3585 (585). Cross-listed in CompStd 4565 and History 3585.

Summer 2024 Term

4589 Studying the Margins: Language, Power, and Culture

U 3

English 4589 will provide students a chance to hear the voices and study the cultural expressions of those groups that have been systematically underrepresented. Students will study the marginalization and oppression of particular groups in the context of historical, ideological and political forces, paying due attention to power relations within the nation-state.

Prereq: 6 cr hrs or 10 qtr hrs of English at the 2000-3000 level. Additionally, 3 cr hrs of 2367 or 5 qtr hrs of 367 in any subject is acceptable toward the total hours; or permission of instructor.

Summer 2024 Term

4590.09H Honors Seminar: Selected Topics in Literature and Literary Interpretation

U 3

Intensive study of selected problems (themes, movements, genres, and styles) emphasizing continuity and development in English and American literary and linguistic history; topic varies by semester.

Prereq: Honors standing, or permission of instructor. Not open to students with 6 sem cr hrs in 4590.09H or 10 qtr cr hrs in 598H. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term

5892 Workshop

U G 1 - 3

Workshop

Prereq: Permission of instructor. Not open to students with 12 cr hrs for 5892 (692). Repeatable to a maximum of 12 cr hrs or 12 completions. This course is graded S/U.

Summer 2024 Term

5980 Ancient and Modern Narrative: Cognition, Affect, Ethics, Belief

U G 3

This course will juxtapose narratives from an ancient culture with narratives from a modern culture to explore the hypothesis that the power of narrative arises from its capacity to affect the lives of audiences by engaging their cognition, affect, ethics, and beliefs. Team-taught w/ faculty in Comparative Studies.

Prereq: Not open to students with credit for CompStd 5980. Cross-listed in CompStd.

Summer 2024 Term

6713.01 Introduction to Middle English Language

G 3

An intensive study of Middle English phonology, morphology, syntax, and dialectology from 1100-1500, with selected readings in the literature.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 6713.01 (713) or 6713.02.

Summer 2024 Term

6776.22 From 1900 to the Contemporary Period

G 3

A two-course sequence in literary criticism from Plato to contemporary theory. Major texts and issues from 1900 to the present.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 676, 776.02, 6776.02, or 6776.22. This course is graded S/U.

Summer 2024 Term

6791.01 Introduction to Graduate Study in Critical Theory: Contemporary Movements

G 3

Introduction to a movement in critical or cultural theory such as feminist, marxist, reader-response, queer, or postcolonial, and its relation to current critical practices.

Prereq: Grad standing, or permission of instructor. Not open to students with 9 sem cr hrs or 15 qtr cr hrs for 6791.01 (791) or 6791.02. Repeatable to a maximum of 9 cr hrs.

Summer 2024 Term

6791.02 Introduction to Graduate Study in Critical Theory: Contemporary Movements

G 3

Introduction to a movement in critical or cultural theory such as feminist, marxist, reader-response, queer, or postcolonial, and its relation to current critical practices.

Prereq: Grad standing, or permission of instructor. Not open to students with 9 sem cr hrs or 15 qtr cr hrs for 6791.01 (791) or 6791.02. Repeatable to a maximum of 9 cr hrs. This course is graded S/U.

Summer 2024 Term

8888.01 Interdepartmental Seminar in Critical Theory

G 3

Interdisciplinary study of a movement (phenomenology, feminism, deconstruction, etc.) or problem (intentionality, evaluation, etc.) in literary theory.

Prereq: Grad standing, or permission of instructor. Background in critical theory recommended. Not open to students with credit for 890 or equiv. Cross-listed in CompStd, French, German, Spanish and WGSSt.

Summer 2024 Term**8888.02 Interdepartmental Seminar in Critical Theory****G 3**

Interdisciplinary study of a movement (phenomenology, feminism, deconstruction, etc.) or problem (intentionality, evaluation, etc.) in literary theory.

Prereq: Grad standing, or permission of instructor. Background in critical theory recommended. Not open to students with credit for 890 or equiv. This course is graded S/U. Cross-listed in CompStd, French, German, Spanish, WGSSt.

Engineering**ENGR****Summer 2024 Term****4891 Colloquia, Workshops, and College Seminars****U 1 - 4**

Special colloquia, workshops or seminars of general interest to engineering students. Repeatable to a maximum of 4 cr hrs or 4 completions. This course is graded S/U.

Environment and Natural Resources**ENR****Summer 2024 Term****5699 Current Topics in Environment and Engineering****U G 1**

Summer seminar which presents research, management and policy of topics in science, environment and engineering. Taught at F.T. Stone Laboratory.

Repeatable to a maximum of 3 cr hrs. This course is graded S/U.

Summer 2024 Term**5790.10 Antarctica Study Abroad Seminar****U G 1**

Pre-departure preparation for Antarctica study abroad. Provides general introduction to the country so that learning opportunities in-country will be maximized.

Prereq: Acceptance into the Antarctica Study Abroad. Not open to students with credit for EarthSc 5790.10. Cross-listed in EarthSc.

Summer 2024 Term**5790.11 Tanzania Study Abroad Seminar****U G 3**

Pre-departure preparation for Tanzania Study Abroad.

Prereq: Acceptance into the Tanzania Study Abroad program.

Entomology**ENTMLGY****Summer 2024 Term****4602 Urban Landscape and Greenhouse Entomology****U 2**

An economic entomology course covering the insect and mite pests of ornamental plants, turfgrass and greenhouse crops. Major pest groups are covered and control of the pests using Integrated Pest Management is emphasized.

Prereq: 1101 (101), 1111, 3000 (500), 4000 (500) or 4600. Not open to students with credit for 462.

Summer 2024 Term**4603 Agricultural Entomology****U 2**

An exploration of insect pests that affect grain, forage, vegetable, and fruit crops, and the biological, cultural, and chemical tactics used to manage them.

Prereq: 1101, 1111, 3000, 4000 or 4600. Not open to students with credit for Entomol 460.

Summer 2024 Term**5130 Field Insect Taxonomy****U G 3**

This is a traditional entomology "collect, preserve and identify" course. It is designed for majors, minors and plant health care students to become more fluent in their identification skills using taxonomic keys and performing biodiversity studies.

Prereq: 1101 (101), 1111, 3000 (500), 4000 (500), or 4600 (460 or 462), or permission of instructor. Not open to students with credit for Entomol 621.

Summer 2024 Term**5601 Current Topics in Entomology, Science and Society****U G 3**

Capstone study of one timely issue intersecting science and society; critical and creative analysis of diverse standpoints and disciplines within and beyond agricultural and environmental sciences, including entomology and environmental toxicology.

Prereq: Sr standing, or permission of instructor. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term**5623 Insect Morphology****U G 2**

A classical course that surveys the external and internal morphology of insects. Dissection techniques, making biological illustrations and histochemical techniques are also covered.

Prereq: 3000 (500), or 4000 (500), or permission of instructor. Not open to students with credit for 623.

Summer 2024 Term**6704 System Analysis, from Molecules to Ecosystems****G 2**

Theory and practice of systems analysis and quantitative methods to describe and test complex hypotheses about insects in natural and managed ecosystems, focusing on processes of interest in entomology from molecular to ecosystem levels.

Prereq: Math 117, 1130 (130), 1148 (148), 1150 (150), 1151.01 (151), or 1161 (161), and Stat 1350 (135), 1450 (145), or 5301 (528). Not open to students with credit for Entomol 645.

Educational Studies: Special Education**ESSPED****Summer 2024 Term****5761.01 Instructional Programming in Early Childhood Special Education****U G 3**

Study of instructional programming for language, communication, sensorimotor, cognitive, and social development in early childhood environments.

Prereq: Grad standing, or admission in Special Education: Early Childhood program, or permission of instructor.

Summer 2024 Term**7189 Advanced Field Placement in Orientation and Mobility****G 1**

This course addresses observing and co-teaching a variety of blind/low vision students under the direct supervision of a Certified Orientation and Mobility Specialists (COMS) within a variety of settings. Emphasis is experience working with a diverse group of students, in a variety of settings; moving to reflection on the process and continuity of teaching (a) student(s) over time.

Prereq: Admission to Orientation and Mobility licensure program. Repeatable to a maximum of 15 cr hrs. This course is graded S/U.

Food, Agricultural, and Environmental Sciences**FAES****Summer 2024 Term****4590H Honors Research Colloquium****U 1**

Preparation of honors programs, design of honors research projects, and writing research proposals.

Prereq: Honors standing, and Jr standing; or permission of instructor. Not open to students with credit for 590.01H.

Food Science and Technology**FDSCTE**

Summer 2024 Term**7546 Advanced Food Microbiology II****G 2**

Food virology & immunology; pathogenesis, & prevention of foodborne viruses; host immune responses to foodborne pathogens; food as immuno-regulator in cancer immunology & immunodeficiency diseases; food allergy, & vaccine against foodborne pathogens.

Prereq: 5536, or permission of instructor. Not open to students with credit for 736.

Summer 2024 Term**7660 Principles of Crystallization Processes in Food Systems****G 2**

Discusses the principles of crystallization in food systems, particularly in dairy, frozen foods, confectionery, and baked products. This course would emphasize the importance of controlling the crystallization as a key factor in food quality, when some foods require the promotion of crystallization and others its prevention.

French**FRENCH****Summer 2024 Term****1101.51 Beginning French I Individualized****U 1 - 4**

Introduction to French; development of listening, reading, speaking, and writing skills. Taught in French. Course not open to native speakers, students with EM credit, or to students with two or more years of study in this language in high school.

Prereq: Not open to students with credit for 1101.01, 101.01, 4 sem cr hrs of 1101.51, or 5 qtr cr hrs of 101.51.

Repeatable to a maximum of 4 cr hrs or 4 completions. This course is available for EM credit. GE for lang course. GE world languages course. FL Admis Cond course.

Summer 2024 Term**4053 French and Italian Cinema to 1952****U 3**

Examines French and Italian cinema from 1895 to 1952 in a comparative context. Looks at key directors, genres and movement and introduces students to pertinent film theory. Taught in English.

Summer 2024 Term**4402 France from the Great War to the Present: Culture in Flux****U 3**

Examines key historical events and cultural and social reactions to them in France from WWI to present through analyses of historical and literary texts, speeches, films, and songs. Focuses on understanding contemporary French culture through exploration of France's recent past. Helps students improve language skills through practice reading, writing, speaking, and listening to French.

Prereq: 3101, and 3201, 3202, 3401, 3402, 3403, or 3701; or permission of instructor.

Summer 2024 Term**8201 Medieval and Renaissance Studies****G 3**

Intensive study of influential authors and anonymous works of French literature between 1100 and 1500 with an intensive exploration of special topics or problems with readings in relevant criticism and scholarship.

Repeatable to a maximum of 12 cr hrs.

Summer 2024 Term**8203 Modern and Contemporary Studies****G 3**

Intensive exploration of special topics or problems in 19th, 20th, and/or 21st century France through readings of literary and cultural texts and relevant criticism.

Repeatable to a maximum of 12 cr hrs. FL Admis Cond course.

Summer 2024 Term**8701 French and Francophone Cinema****G 3**

Detailed exploration of particular topics or periods in French and/or Francophone cinema with extensive analysis of individual films and readings in relevant theory and criticism.

Repeatable to a maximum of 12 cr hrs.

General Studies: Chemistry

GENCHEM

Summer 2024 Term**1150T Introduction to Organic Chemistry****U 3**

Emphasizes the structure, nomenclature, and physical and chemical properties of organic and biological molecules.

Prereq: 1100T (131T) or Chem 1110 (101). Not open to students with credit for 132T or Chem 102. This course is available for EM credit.

General Studies: Humanities

GENHUM

Summer 2024 Term**1190.01T Humanities as a Window on Cultural Pluralism: The Arts in Ghana****U 3**

An introduction to specific arts and cultural contexts of Ghana, West Africa, leading to a four-week study abroad, IntStds 5797.

Prereq: Permission of instructor. Concur: IntStds 5797. Not open to students with credit for 190T.

General Studies: Mathematics

GENMATH

Summer 2024 Term**1030T Basic Mathematics I****U 3**

A foundation course in arithmetic and beginning algebra skills. Emphasis is on obtaining competencies necessary to be successful in the Basic Mathematics II course.

Prereq: Not open to students with credit for 1040T or 1140T.

Summer 2024 Term**1040T Basic Mathematics II****U 3**

A review of algebra and geometry fundamentals with emphasis on measurement, percent application, two and three-dimensional geometry application, and direct and inverse proportion.

Prereq: 1030T with a grade of C- or better, or Math placement Level S. Not open to students with credit for 1140T. This course is available for EM credit.

Geography

GEOG

Summer 2024 Term**2200.02 Mapping Our World****U 3**

Study abroad in Scandinavia. Introduction to the power of maps, covering spatial representation, visual literacy, and geographic information technology in a global society.

Prereq: Permission of instructor. Not open to students with credit for 2200.01 or 480. GE data anyl course. GE foundation math and quant reasoning or data anyl course.

German

GERMAN

Summer 2024 Term**2252H The Faust Theme****U 3**

Major versions of the Faust story, their socio-cultural context, and their symbolic expression of recurring human concerns. Taught in English.

Prereq: Honors standing, and English 1110.01 (110) or equiv; or permission of instructor. Not open to students with credit for 263H. GE lit and diversity global studies course. EN Admis Cond course.

Summer 2024 Term**2367 German Literature and American Culture****U 3**

German perspectives on and in 20th-century American culture. Influence of German thought and writings on American culture; German views of American culture. Taught in English.

Prereq: English 1110.01, 1110.02, and 1110.03 or equiv. Not open to students with credit for 367. GE writing and comm course: level 2. EN Admis Cond course.

Summer 2024 Term**2798.01 Study Tour****U 1 - 15**

Specific content, location, semester(s) of offering, and prerequisites vary; contact department office for details.

Prereq: Permission of instructor. Repeatable to a maximum of 30 cr hrs or 10 completions for different titled study tours only. Admis Cond course.

Summer 2024 Term**4250 Senior Seminar in German Studies: Literature, Art and Film (English)****U 3**

Exploration of topics in German literature, art, and film as cultural expressions within transnational contexts, aimed at improving students' historical knowledge, skills for exploring cultural and critical-intellectual traditions.

Counts toward fulfillment of advanced requirement for the major. Taught in English.

Prereq: Jr or Sr standing. FL Admis Cond course.

Summer 2024 Term**4350 Senior Seminar in German Studies: Culture Studies, Social and Intellectual History (English)****U 3**

Exploration of topics in German intellectual history and the history and theory of German culture. Counts toward fulfillment of advanced requirement for the major. Taught in English.

Prereq: Jr or Sr standing. FL Admis Cond course.

Summer 2024 Term**7888 Interdepartmental Seminar****G 3**

Two or more departments present seminars on subjects of mutual interest; topics to be announced.

Prereq: Permission of instructor. Repeatable to a maximum of 9 cr hrs. Admis Cond course.

Human Development And Family Science**HDFS****Summer 2024 Term****8404 Adolescence: Risk in Context****G 3**

Examines the ways that social relationships and contexts (family, peers, community, etc) shape development, specifically risk and problem behavior during the adolescent period.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 840.04.

Hebrew**HEBREW****Summer 2024 Term****2702 Modern Hebrew Literature in Translation****U 3**

A survey of major themes and topics in Modern Hebrew literature from the middle of the 19th century to the present.

Prereq: English 1110 (110). Not open to students with credit for 372, 2702H (372H), JewshSt 2702, or 2702H. GE lit and diversity global studies course. Cross-listed in JewshSt.

Summer 2024 Term**5802 The Problem of Evil in Biblical and Post-Biblical Literature****U G 3**

Study of the vexing problem of evil; the seeming contradiction between tradition and experience; extensive readings and discussions of appropriate biblical and post-biblical literature. In English.

Prereq: Not open to students with credit for JewshSt 5802.

Summer 2024 Term**5806 Studies in Biblical Law****U G 3**

Examination of the various biblical corpora of laws within the context of a great body of legal collections which extended throughout the ancient Near East.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for JewshSt 5806.

Horticultural Technology**HORTTEC****Summer 2024 Term****2189.10T Practicum in Floral Design****U 1 - 2**

Supervised experiences in floral design and flower shop work. A grade of C or better is required to meet graduation requirements.

Prereq: 2600T. Repeatable to a maximum of 4 cr hrs or 4 completions.

Summer 2024 Term**2190.10T Practical Leadership in Floral Design****U 1 - 2**

Supervised experiences in flower shop leadership and management. A grade of C or better is required to meet graduation requirements.

Prereq: 2189.10T (264T and 268T). Repeatable to a maximum of 2 cr hrs or 2 completions.

Summer 2024 Term**2191.10T Floral Design and Marketing Internship****U 1 - 2**

Employment in the floral industry, structured to provide varied occupational experiences, supervised by an industry employer, and coordinated by faculty. A grade of C or better is required to meet graduation requirements.

Prereq: 1201T and 2620T (264T). Repeatable to a maximum of 4 cr hrs or 4 completions.

Summer 2024 Term**2600T Commercial Floral Design****U 4**

A basic course introducing the elements and principles of floral design as they relate to the construction of saleable flower arrangements and corsages.

Prereq: Not open to students with credit for 262T and 264T. This course is available for EM credit.

Summer 2024 Term**2620T Retail Flower Shop Operation****U 2**

Principles and practices of management and operation of a retail flower shop with emphasis on purchasing, pricing, merchandising, selling, delivery and wire services.

Prereq: 2600T. This course is available for EM credit.

Summer 2024 Term**2640T Flowers for Celebrations****U 4**

A specialized course dealing with consulting, planning, organizing and creating floral designs and decor for wedding ceremonies and receptions, parties, and celebrations of life.

Prereq: 2600T (262T and 264T). Not open to students with credit for 265T and 269T.

Summer 2024 Term**2660T Post-Harvest Flower Care****U 2**

Principles and practices of post-harvest flower care from producer to consumer with emphasis on identification and proper care and handling at the retail level.

Prereq: 2640T. Concur: 2680T. Not open to students with credit for 263T. This course is available for EM credit.

Summer 2024 Term

2680T Contemporary Floral Design

U 3

An advanced course emphasizing the artistic nature of floral design with a global perspective of contemporary styles, techniques and trends.

Prereq: 2640T. Concur: 2660T. Not open to students with credit for 267T.

International Studies

INTSTDS

Summer 2024 Term

2250H Russia: From Communism to Capitalism

U 3

Survey of the birth, growth, and death of the communist Soviet Union, and of the cultural, economic, social, and political trajectory of its successor, Russia.

Prereq: Honors standing, or permission of instructor. Not open to students with credit for 230H or 2250 (230).

GE soc sci orgs and politics and diversity global studies course.

Summer 2024 Term

2500H Introduction to Development Studies

U 3

Examines theories of political economy and development, as well as the historical geography of global capitalism and contemporary issues in international economic development.

Prereq: Honors standing. Not open to students with credit for 215H. GE soc sci human, nat, and econ resources and diversity global studies.

Summer 2024 Term

4200 Living Jerusalem: Ethnography and Bridge Blogging in Disputed Territory

U 3

In this experimental class, you will meet Israeli and Palestinian scholars and students in video conferences and blogs as you engage in ethnographic, historical, political & cultural analyses of historical and contemporary Jerusalem.

Prereq: Soph standing, or permission of instructor.

Summer 2024 Term

4250 Comparative Communism: China and Russia

U 3

Seeks to understand the different trajectories of the world's two great communist powers of the 20th century, China and the Soviet Union.

Prereq: Soph standing, or permission of instructor. Not open to students with credit for 530.

Summer 2024 Term

4536 Economic Development of Sub-Saharan Africa

U 3

Issues shaping economic development and stagnation in contemporary Africa such as population growth, agricultural development, industrialization, trade, structural adjustment and environmental issues.

Prereq: AEDEcon 2001 (200) or Econ 2001 (200). Not open to students with credit for 436, 536, AEDEcon 436, or 4536 (536). Cross-listed in AEDEcon.

Summer 2024 Term

4538 Latin American Economic Development

U 3

Public policy and other factors influencing economic growth in Latin America are examined.

Prereq: AEDEcon 2001 (200) or Econ 2001 (200), or equiv. Not open to students with credit for 438, 538, AEDEcon 4538 (538), or 438. Cross-listed in AEDEcon.

Summer 2024 Term

4539 China's Economic Reforms and Globalization

U 3

An introductory survey course of economic reforms and globalization in China with emphasis on the country's economic and social transformation, and its integration into the global economy.

Prereq: AEDEcon 2001 (200) or Econ 2001 (200), or permission of instructor. Not open to students with credit for 439, 539, AEDEcon 4539 (539), or 439. Cross-listed in AEDEcon.

Summer 2024 Term**5616 Challenges to Childhood: An International Perspective****U G 3**

Course will explore children's forced participation in war and its consequences and child poverty, labor, health, abuse, and victimization in international perspective.

Prereq: Soph standing or above, or permission of instructor. Not open to students with credit for 616 or Sociol 5616 (616). Cross-listed in Sociol.

Summer 2024 Term**5702 Research on Organized Violence****U G 3**

Introduces students to the process of independent research through an in-depth examination of the Troubles in Northern Ireland.

Summer 2024 Term**5801 Children and War****U G 3**

Explores how children are affected by war, as forced participants, orphans and refugees. Long-term effects on society will be studied.

Prereq: Soph standing or above, or permission of instructor. Not open to students with credit for 615.

Islamic Studies**ISLAM****Summer 2024 Term****3230 Introduction to Shi'i Beliefs and History****U 3**

Introduction to the history, doctrinal tenets, and social manifestations of Shi'ism within Islam and in the context of Islamic civilization.

Prereq: English 1110. Not open to students with credit for NELC 3230.

Summer 2024 Term**3502 Islamic Civilization Through the Ages****U 3**

Islamic civilization through the ages offers a panoramic view of the interrelated social, political, economic, religious and intellectual developments of regions of Africa and Asia where the religion of Islam has had significant historical impact.

Prereq: Not open to students with credit for NELC 3502.

Summer 2024 Term**4597 Islamic Revival and Social Justice: Utopian Ideals and Lived Realities****U 3**

Examination of modern Islamic revival movements in selected contemporary Muslim-majority societies.

Prereq: Sr standing, or permission of instructor. Not open to students with credit for NELC 4597. GE cross-disciplinary seminar course.

Summer 2024 Term**5703 Common Heritage: Biblical Figures in the Qur'an****U G 3**

Examining and comparing the images of important prophets in the Bible and the Qur'an.

Prereq: Not open to students with credit for Arabic 5703. Repeatable to a maximum of 9 cr hrs.

Italian**ITALIAN****Summer 2024 Term****2054 Dante in Translation****U 3**

Study of Dante's Divine Comedy with a focus on the Inferno. Students will explore the historical, religious, philosophical and literary world that the poem engages.

Prereq: English 1110 (110, 110.01, 110.02, or 110.03). Not open to students with credit for 251. GE lit course.

Summer 2024 Term**3102 Business Italian****U 3**

Four-skill study and practice of general business Italian; introduction to current Italian commerce, business practices, terminology, business-related communication skills. Not open to native speakers of Italian.
Prereq: 2102 (202), or permission of instructor. Not open to students with credit for 206. FL Admis Cond course.

Summer 2024 Term**4331 Italian Translating****U 3**

Translation from Italian to English and English to Italian of texts from diverse sources; analysis of prose styles and conventions in the two languages. Not open to native speakers of Italian.
Prereq: One course taken at the 3000 (or 400) level, or permission of instructor. Not open to students with credit for 602.

Summer 2024 Term**8221 Studies in Italian Literature: Author****G 3**

Focus on one author from any time period.
Prereq: Doctorial or MA candidates, or qualified undergraduates with permission of instructor. Repeatable to a maximum of 9 cr hrs. FL Admis Cond course.

Summer 2024 Term**8222 Studies in Italian Literature: Genre****G 3**

Focus on one genre from one or several time periods.
Prereq: Doctorial or MA candidates or, qualified undergraduates with permission of instructor. Repeatable to a maximum of 9 cr hrs. FL Admis Cond course.

Summer 2024 Term**8231 Dante Studies****G 3**

Focus on variable selection of Dante's work, from early works to the Commedia, as well as cultural contexts. Attention also to the practice of Dante criticism.
Prereq: Doctorial and MA candidates, and qualified undergraduates with permission of instructor. FL Admis Cond course.

Summer 2024 Term**8233 Boccaccio and the Art of the Short Story****G 3**

Intensive study of Boccaccio's Decameron with comparison to sources as well as later works such as The Canterbury Tales and The Heptameron.
Prereq: Doctorial and MA candidate, or qualified undergraduates with permission of instructor. Not open to students with credit for 622. FL Admis Cond course.

Summer 2024 Term**8244 Studies in Italian Culture: Italy at War****G 3**

Detailed analysis of either filmic or literary representations of periods of strife in modern Italian culture.
Prereq: Doctorial or MA candidates or, qualified undergraduates with permission of instructor. Repeatable to a maximum of 9 cr hrs. FL Admis Cond course.

Jewish Studies**JEWSHST****Summer 2024 Term****2516 The Medieval Jewish Experience****U 3**

A survey of ten centuries of medieval Jewish culture from the rise of Islam to the death of Shabbetai Zvi, the false Messiah (1676).
Prereq: Not open to students with credit for MedRen 2516 (Medieval 216) or Hebrew 2216 (216). GE cultures and ideas and diversity global studies course. GE foundation historical and cultural studies course. Cross-listed in MedRen 2516 and Hebrew 2216.

Summer 2024 Term**3351 Judaism and Ethics****U 3**

Examination of the relationships of ethics to religion in general and Judaism in particular, emphasizing the place of ethical reasoning within Judaism.

Prereq: Not open to students with credit for Philos 3351 (323). Cross-listed in Philos.

Summer 2024 Term**3460 European Jewish History, 1789-1989****U 3**

Study of European Jewish Communities from the French Revolution through the end of the Cold War.

Prereq: English 1110.xx and any History 2000-level course, or permission of instructor. Not open to students with credit for History 3460 (530.03). GE historical study course. Cross-listed in History.

Summer 2024 Term**4191 Jewish Studies Internship****U 1 - 3**

Community work with agencies and organizations serving the Jewish population. Evaluation of policy decisions from a Jewish perspective.

Prereq: 2201, and 9 sem cr hrs in JewshSt; or permission of instructor. Repeatable to a maximum of 3 cr hrs or 2 completions. This course is graded S/U.

Summer 2024 Term**5870 Topics in Jewish Philosophy****U G 3**

An examination of a philosophical issue in Jewish thought or of the thought of a particular author; topics vary.

Prereq: Philos 3111 (321) or 3220 (302), or permission of instructor. Repeatable to a maximum of 9 cr hrs. Cross-listed in Philos.

Kinesiology**KINESIO****Summer 2024 Term****2221.01 Sports Officiating: Baseball****U 1**

Study of playing rules, rule interpretation, techniques, and mechanics of officiating interscholastic and intercollegiate baseball. Satisfactory evidence of playing skill in the elected athletic sport.

Prereq: Not open to students with credit for EduPAES 221.01.

Kinesiology: Physical Education**KNPE****Summer 2024 Term****2620.04 Coaching: Football****U 2**

Study in the theory, strategy, and mechanics of coaching interscholastic; intercollegiate football. Advanced skill level in the elected sport.

Prereq: Jr standing. Not open to students with credit for EduPAES 620.04.

Summer 2024 Term**6222 Recruiting Student-Athletes for College Athletics****G 3**

Recruiting college student-athletes represents one of the most important tasks that coaches engage in to ensure their success. This course examines the key concepts, knowledge and skills in recruiting student-athletes to college. We examine recruitment from the perspective of the recruiter and the student-athlete.

Kinesiology: Sport, Fitness, and Health Program**KNSFHP****Summer 2024 Term****1139.07 Introductory Program of Outdoor Pursuits: Experimental Sections****U 1**

Activities will be announced and publicized whenever an experimental section is deemed worthy of trial.

Prereq: Permission of instructor. Not open to students with credit for EduPAES 139.07. This course is graded S/U.

Summer 2024 Term**1148.05 Conditioning Activities: Cardio Exercise Training****U 1**

Students will participate in a progressive cardiovascular exercise training program that will utilize popular stationary equipment including treadmills, elliptical machines, cycles, and rowing machines.

Summer 2024 Term**1151 Strength Training II****U 1**

Strength and power training; advanced anaerobic and speed conditioning.

Prereq: 1148.04 or 1149.04, or EduPAES 1148.04 or 1149.04, or equiv. Repeatable to a maximum of 2 cr hrs or 3 completions.

Summer 2024 Term**1179 Skin and Scuba Diving****U 2**

Skills and knowledge essential for safe diving and preparation for open water checkout dives. Student must be able to swim .25-mile in 10 min. Student must provide bathing suit and bear cost of required special scuba medical exam.

Prereq: Not open to students with credit for EduPAES 179.

Latin**LATIN****Spring 2025 Semester****7193 Individual Studies****G 1 - 9**

Assigned reading of Latin authors or topics of Roman culture to help with language requirements or to prepare for exams.

Au, Sp, Su Sems. Prereq: Permission of instructor. Repeatable to a maximum of 36 cr hrs or 12 completions.

This course is graded S/U.

Spring 2025 Semester**8999 Research****G 1 - 9**

Readings and discussions connected with the writing of a thesis on a topic of Latin literature and culture.

Au, Sp, Su Sems. Prereq: Permission of instructor. Repeatable to a maximum of 36 cr hrs or 12 completions.

This course is graded S/U.

Law**LAW****Summer 2024 Term****8896.08 Seminar: Law, History & Philosophy****L 2**

The history of American law and legal institutions, and their relationship to society, from the Reconstruction era through recent past.

Linguistics**LING****Summer 2024 Term****1101 Human Voices****U 1**

Students will explore the acoustic properties of the human voice, including what makes voices unique, with the goal of understanding what makes the voices of ourselves, our friends and family, and famous actors and politicians distinctive, memorable, and recognizable.

Prereq: Not open to students with credit for ArtsSci 1138.xx (Famous Voices, Clopper).

Summer 2024 Term**5000 Introduction to Linguistics****U G 3**

A broad introduction to general linguistics: survey of phonological, morphological, syntactic, and semantic analysis, and of historical and comparative linguistics.

Prereq: Grad standing, or major/minor in Ling; or permission of instructor. Not open to students with credit for 4000 (Linguist 601).

Summer 2024 Term**5410 Natural Language Metaphysics****U G 1 - 3**

Natural languages seem to presuppose that the world is a certain way. In many cases, the presuppositions are philosophically (or scientifically) contentious. We will explore a variety of such cases noting the ramifications for both metaphysics and for semantics. Team-taught course with faculty member in Philosophy.

Prereq: 5001, or 5401; or Philos 2500 and 6 cr hrs in Philos at or above 3000-level; or Grad standing in Philos; or permission of instructor. Ling 5410 and Philos 5610 repeatable to a maximum of 6 cr hrs. Cross-listed in Philos 5610.

Meat Science**MEATSCI****Summer 2024 Term****5310 Auditing Processing Facilities****U G 2**

Auditing programs and processes used in the food animal processing industry.

Prereq: 3110 (AnimSci 355.01).

Summer 2024 Term**5410 Meat Industry Tour****U G 2**

Exploration of meat processing facilities.

Prereq: 3110 (AnimSci 355.01).

Summer 2024 Term**6510 Advanced Meat Technology****G 3**

In depth exploration and analysis of the processes influencing the palatability, wholesomeness and value of muscle foods.

Prereq: 5510 (AnimSci 605), or Grad standing. Not open to students with credit for AnimSci 650.

Medical Dietetics**MEDDIET****Summer 2024 Term****4500 Health Promotion and Community Nutrition****U 3**

Study of community needs assessment, national nutrition policy, design and evaluation of programs and cultural factors to promote the health and nutritional status of the community.

Prereq: HumnNtr 2310.

Summer 2024 Term**5705 Nutrition and Physical Performance****U G 2**

Integration of nutrition, exercise physiology, and biochemistry. Use of nutrients as fuel, interaction between nutrients and exercise performance, assessment of energy expenditure and nutritional status, interactions among diet, exercise and health.

Prereq: 4609 (610). Not open to students with credit for 705. Cross-listed in HumnNtr.

Summer 2024 Term**6001 Foundations in Research & Application I****G 1**

An evidence based review of current topics in dietetics to support the integration of nutrition informatics, scientific evidence and key trends in healthcare to dietetics practice.

Prereq: Enrollment in MedDiet or HthRhSc graduate program. This course is graded S/U.

Summer 2024 Term**6300 Evidence Based Topics in Nutrition & Dietetics****G 3**

An in depth examination of the role of nutrients and food components and their impact of body systems and health.

Prereq: Grad standing.

Medieval and Renaissance Studies**MEDREN**

Summer 2024 Term**2520 Christians, Muslims, and Jews in the Mediterranean World****U 3**

An introduction to Mediterranean studies examining relationships between the cultures of the three Religions of the Book (Jews, Christians, Muslims) through art, literature, and history.
GE culture and ideas course.

Summer 2024 Term**2526 Constantinople: The Imperial Capital of Byzantium****U 3**

A survey of Byzantine civilization focusing on life in the capital, literature, and the court, Orthodox Christianity, and the formation of Medieval Europe.

Prereq: Not open to students with credit for 226 or Classics 2203, 2526, or 226. GE culture and ideas and diversity global studies course. Cross-listed in Clas.

Summer 2024 Term**4728 Medieval/Renaissance Study Tour****U 3**

Study tour offered in conjunction with MRS city courses on Paris, London, Novgorod, and other cities.

Repeatable to a maximum of 9 cr hrs. This course is graded S/U.

Microbiology**MICRBIO****Summer 2024 Term****2200 Genome Biology****U 1**

DNA sequencing and analysis of bacteriophage genomes. Special emphasis on mycobacteriophage as part of the Howard Hughes Medical Institute National Genomics Research Initiative.

Prereq: Biology 1113 with participation in the Howard Hughes Medical Institute National Genomics Research Initiative, or permission of instructor. Cross-listed in Biology 2200.

Summer 2024 Term**3300 The Biology of Pollution****U 2**

A general consideration of the interactions of environmental pollutants and biological systems.

Prereq: 3 cr hrs in Biology. Not open to students with credit for Micrbiol 301.

Summer 2024 Term**5160 Geomicrobiology****U G 3**

The role of microorganisms in shaping our environment through mineralogical and geochemical processes at both local and global scales, in the present day and over geologic time periods.

Prereq: Sr or Grad standing in School of Earth Sciences, Department of Microbiology, Department of Civil, Environmental, and Geodetic Engineering, or School of Environment and Natural Resources. Not open to students with credit for EarthSc 5160. Cross-listed in EarthSc.

Summer 2024 Term**5169 Microbial Evolution****U G 3**

Evolution and evolutionary ecology of bacteria, viruses, and other microorganisms: mutation, selection, gene exchange, macroevolution, social interactions, coevolution, endosymbioses, emerging virulence, and increasing complexity.

Prereq: 6 cr hrs in Biology, or permission of instructor. Not open to students with credit for 5169H (Micrbiol 669H).

Summer 2024 Term**5800 Organelle Biology****U G 2**

Structure and function of plastids and mitochondria, apicoplasts and hydrogenosomes.

Prereq: MolGen 4500 (500), 4500E, or 4606 (606), or permission of instructor. Cross-listed in MolGen.

Summer 2024 Term**7020 Physiology Meets Pathogenesis****G 2**

The physiological basis for growth and virulence of microbes in the host.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 702.

Summer 2024 Term**7070 Antibiotics****G 3**

This is a literature-based course using a combination of faculty lectures and student-led discussions. This course will introduce students to the major classes of antibiotics, their modes of action, and the various resistance mechanisms that counteract their inhibitory activities.

Prereq: Grad standing; or permission of instructor, and approved petition by Grad School.

Molecular Genetics**MOLGEN****Summer 2024 Term****5660 Integrated Molecular and Cellular Biology for Non-Biologists****U G 5**

Overview of molecular and cellular biology of single cells, tissues, organisms and their interactions, including genetics and biochemistry of single cells.

Prereq: Biology 1101 (101) or equiv, or permission of instructor. Not open to students with credit for 4500 (500), 4606 (606), 605, 660, 661, or Math 5660. Cross-listed in Math.

Music**MUSIC****Summer 2024 Term****1110.12 Applied Music (Prospective Majors): Jazz Piano****U 2**

Elementary applied jazz piano course restricted to prospective music majors whose audition scores indicate the need for systematic instruction to prepare for 2201.

Prereq: By audition only. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**1110.21 Applied Music (Prospective Majors): Voice****U 2**

Elementary applied voice course restricted to prospective music majors whose audition scores indicate the need for systematic instruction to prepare for 2201.

Prereq: By audition only. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**1110.33 Applied Music (Prospective Majors): Cello****U 2**

Elementary applied cello course restricted to prospective music majors whose audition scores indicate the need for systematic instruction to prepare for 2201.

Prereq: By audition only. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**1110.37 Applied Music (Prospective Majors): Jazz Guitar****U 2**

Elementary applied jazz guitar course restricted to prospective music majors whose audition scores indicate the need for systematic instruction to prepare for 2201.

Prereq: By audition only. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**1110.45 Applied Music (Prospective Majors): Saxophone****U 2**

Elementary applied saxophone course restricted to prospective music majors whose audition scores indicate the need for systematic instruction to prepare for 2201.

Prereq: By audition only. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**1110.52 Applied Music (Prospective Majors): Trumpet****U 2**

Elementary applied trumpet course restricted to prospective music majors whose audition scores indicate the need for systematic instruction to prepare for 2201.

Prereq: By audition only. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**1110.53 Applied Music (Prospective Majors): Trombone****U 2**

Elementary applied trombone course restricted to prospective music majors whose audition scores indicate the need for systematic instruction to prepare for 2201.

Prereq: By audition only. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**1110.72 Applied Music (Prospective Majors): Jazz Percussion****U 2**

Elementary applied jazz percussion course restricted to prospective music majors whose audition scores indicate the need for systematic instruction to prepare for 2201.

Prereq: By audition only. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**2201.44 Applied Music - Principal - Bass Clarinet****U 2**

Instruction in applied bass clarinet to develop musicianship, performance, and knowledge of music literature.

Prereq: Admission to the School of Music by audition. Repeatable to a maximum of 6 cr hrs. This course is available for EM credit.

Summer 2024 Term**2203.02 Symphonic Choir****U ½ - 2**

Symphonic Choir is a concert organization whose members perform a variety of literature.

Prereq: Admission by audition only. Repeatable to a maximum of 16 cr hrs or 8 completions. VSP Admis Cond course.

Summer 2024 Term**2203.07 Ladies First****U ½ - 1**

Study and performance of small ensemble choral literature for women's voices.

Prereq: Admission by audition only. Repeatable to a maximum of 8 cr hrs or 8 completions. VSP Admis Cond course.

Summer 2024 Term**2208.07 Small Ensemble: Percussion****U ½ - 1**

Intensive study of ensemble works for percussion.

Prereq: Admission by audition, or permission of instructor. Repeatable to a maximum of 12 cr hrs or 12 completions. VSP Admis Cond course.

Summer 2024 Term**2213 First Year Voice Seminar****U 1**

Introduction to issues and materials related to a career in solo voice performance.

Prereq: Open to Music majors only.

Summer 2024 Term**2215.02 First Year Orchestra****U ½ - 2**

Rehearsal and performance experience for non-music majors who played an orchestral instrument in high school.

Prereq: Must have played an orchestral instrument in high school. Not open to Music majors. Repeatable to a maximum of 4 cr hrs or 2 completions. VSP Admis Cond course.

Summer 2024 Term

3350 The British Invasion: Exploring the impact of British popular music in the 1960s
U 3

Offers an introduction and orientation to the popular music of the United Kingdom, most specifically, music from the country of England. It will explore the meaning and impact of the 1960s as reflected in the music of that era. Specific attention will be given to the international exchange of musical influences between the United States and the U.K.

Prereq: GPA 3.0 in respective major, and Soph standing or above. GE VPA and education abroad course.

Summer 2024 Term

4555.01 Studies in Musicology: Music Before 1600
U 3

Introduction to specialized topics and issues in historical musicology and ethnomusicology. Medieval and Renaissance music.

Prereq: Admission to BM in Musicology, or permission of instructor.

Summer 2024 Term

4555.02 Studies in Musicology: Music from 1600 to 1800
U 3

Introduction to specialized topics and issues in historical musicology and ethnomusicology. Baroque and Classical.

Prereq: Admission to BM in Musicology, or permission of instructor.

Summer 2024 Term

4555.03 Studies in Musicology: Music from 1800 to the Present
U 3

Introduction to specialized topics and issues in historical musicology and ethnomusicology. Romantic to twenty-first century music.

Prereq: Admission to BM in Musicology, or permission of instructor.

Summer 2024 Term

4555.08 African Music: Ideas Forms and Trajectories
U 3

Introduction to specialized topics and issues in historical musicology and ethnomusicology. African Music.

Prereq: Admission to BM in Musicology, or permission of instructor.

Summer 2024 Term

4555.09 Studies in Musicology: Chinese Music
U 3

This course is an introduction to the history, theory and practice of Chinese music, with special reference to the socio-cultural conditions of its development.

Prereq: Admission to BM in Musicology, or permission of instructor.

Summer 2024 Term

5187 Advanced Alexander Technique
U G 1 - 2

Advanced study in Alexander Technique.

Prereq: Permission of instructor. Repeatable to a maximum of 8 cr hrs or 4 completions.

Summer 2024 Term

5313 Opera Chorus
U G 3

A selected group of mixed voices which rehearses and performs selected operatic repertoire in conjunction with the OSU Opera. Instruction and experience in preparation for opera performance, including study of operatic choral literature.

Prereq: Audition and permission of the Director of Opera or the Director of Choral Activities. Repeatable to a maximum of 15 cr hrs.

Summer 2024 Term

5603.01 Topics in Percussion: Instrument Repair and Logistics
U G 2

Study of the numerous ways to repair various percussion instruments. Types of instruments and their manufacturers.

Prereq: Enrollment in Music major with a specialization in percussion.

Summer 2024 Term**5650 History of Choral Music****U G 2**

Survey of the history and stylistic development of choral music.

Prereq: 2242; or Grad standing, and enrollment in Music major. Not open to students with credit for 650.

Summer 2024 Term**5651 History of Opera****U G 2**

Survey of the history and stylistic development of opera.

Prereq: 2242, or Grad standing in Music. Not open to students with credit for 651.

Summer 2024 Term**6668 Instrument Repair****G 1**

Development of practical skills in identifying and correcting minor repair problems on band and orchestral instruments and their accessories.

Prereq: Permission of instructor. Repeatable to a maximum of 2 cr hrs.

Summer 2024 Term**6752 Arts in Urban Contexts****G 3**

The course will focus on community organizations in which artists engage with youth to encourage self expression, contributions to the community, and explore creative approaches to social change. Participants will explore dynamics of leadership, creativity, demographics, and educational strategies that are employed in such organizations.

Prereq: Grad standing.

Summer 2024 Term**7203.02 Symphonic Choir****G 1 - 2**

Study and performance of intermediate choral repertoire.

Prereq: Audition and permission of instructor. Repeatable to a maximum of 10 cr hrs or 10 completions.

Summer 2024 Term**7730 Introduction to Musicology****G 3**

Introduction to the materials, issues and methodologies of musicology. An introduction to musicology focused on sounding music and music contexts.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 730.01 or 730.02.

Summer 2024 Term**7741 Studies in Music from 1600 to 1800****G 3**

An introduction to the scholarly issues of music of the Baroque and Classic eras.

Prereq: 2243 (243) or equiv, 4531 or equiv; and grad standing. Not open to students with credit for 742 or 743.

Summer 2024 Term**7742 Studies in Music from 1800 to the Present****G 3**

Introduction to scholarly issues in the music from the Romantic era to the 21st century.

Prereq: 2243 (243) or equiv, 4531 (531) or equiv; and grad standing. Not open to students with credit for 744 or 745.

Summer 2024 Term**7801.11 Applied Music Principal Piano****G 2 - 4**

Advanced applied piano study with emphasis on musicianship, pedagogical techniques, and literature.

Prereq: Enrollment in Master of Arts in Piano Pedagogy program. Repeatable to a maximum of 24 cr hrs or 6 completions.

Summer 2024 Term**7801.32 Applied Music Principal Viola****G 2 - 4**

Advanced applied viola study with emphasis on musicianship, pedagogical techniques, and literature.

Prereq: Enrollment in Master of Arts in String Pedagogy program. Repeatable to a maximum of 24 cr hrs or 6 completions.

Summer 2024 Term**7801.42 Applied Music Principal Oboe****G 2 - 4**

Advanced applied oboe study with emphasis on musicianship, pedagogical techniques, and literature.

Prereq: Enrollment in Master of Arts in Woodwind Pedagogy program. Repeatable to a maximum of 24 cr hrs or 6 completions.

Summer 2024 Term**7801.45 Applied Music Principal Saxophone****G 2 - 4**

Advanced applied saxophone study with emphasis on musicianship, pedagogical techniques, and literature.

Prereq: Enrollment in Master of Arts in Woodwind Pedagogy program. Repeatable to a maximum of 24 cr hrs or 6 completions.

Summer 2024 Term**8838.04 Topics in Recent Literature of Music Cognition****G 3**

Critical readings and discussion of current research publications in music cognition.

Prereq: Permission of instructor. Repeatable to a maximum of 12 cr hrs.

Summer 2024 Term**8839.01 Music Cognition Research Laboratory****G 3**

Practical experiences in laboratory studies of music.

Prereq: 8838.01 (838). Repeatable to a maximum of 6 cr hrs.

Nursing**NURSING****Summer 2024 Term****7496 Opioid Use Disorder****G 2**

Evidence-based training in opioid use disorder (OUD) prevention, diagnosis, and treatment, emphasizing Medication-Assisted Treatment (MAT), to interdisciplinary teams of pharmacy, health and rehabilitation sciences, nursing, medicine and social work students to assure an interprofessional work force prepared to address the opioid epidemic.

Prereq: Enrollment in Interprofessional Healthcare certificate program, or permission of instructor. This course is graded S/U. Cross-listed in SocWork.

Summer 2024 Term**7779 Evidence Based Practice for Interprofessional Teams****G 3**

Built around the Evidence-based Practice (EBP) and Interprofessional Education Collaborative (IPEC) competencies, learners will build the knowledge and skills of EBP needed to address relevant issues in healthcare in order to improve quality, safety and outcomes for patients, populations, organizations and the communities in which they exist.

Prereq: Enrollment in Interprofessional Healthcare certificate program, or permission of instructor.

Occupational Therapy**OCCTHER****Summer 2024 Term****7770 Advance Topics in Assistive Technology****G 2**

Students learn how to develop and implement assistive technology (AT) devices, services, strategies and practices. The course covers computer access/technology, alternative and augmentative communication, electronic cognitive devices, driver's rehabilitation, low vision technologies, wheelchairs, electronic activities of daily living, zero-effort technologies, and emerging technologies.

Prereq: HthRhSc 5200 or OccTher 7411 or equiv., and Grad standing; or permission of instructor.

Optometry

OPTOM

Summer 2024 Term**7800 Special Topics in Optometry****O** ½ - 8

Elective clinical rotations in the professional optometric curriculum.

Prereq: Enrollment in Optom, and permission of instructor or department. Repeatable to a maximum of 40 cr hrs or 20 completions.

Plant Pathology

PLNTPTH

Summer 2024 Term**8300.02 Host Resistance: History and Future Implications for Deployment****G** 2

Focuses on the development and knowledge of host resistance and pathogenic diversity in determining what type of resistance should be deployed and explore factors that may impact future success of new genetically modified techniques.

Prereq: 5603 or 5140; or permission of instructor.

Summer 2024 Term**8400 Molecular Bases of Plant Host-Microbe Interactions****G** 3

Introduction to plant host-pathogen interactions, with emphasis on molecular bases of pathogen virulence and host resistance. Video-linked to Wooster.

Sp Sem. Prereq: 5010 (600.01), 5020 (600.02), 5030 (636), and 5040 (660); or permission of instructor. Not open to students with credit for 602, 841, 842 and 843.

Public Health: Environmental Health Sciences

PUBHEHS

Summer 2024 Term**6315 Advanced Environmental Health Science****G** 3

Survey of environmental influences on human health and strategies for prevention considering source emissions, environmental fate and transport, human exposure, dose, biological effects, and ultimately disease associated with exposure.

Prereq: Enrollment in EHS program, and Grad standing.

Public Health: Epidemiology

PUBHEPI

Summer 2024 Term**8411 Epidemiology of Obesity****G** 3

Prevalence, trends, risk factors, measurement, outcomes and issues related to obesity; critical reading and discussion of research on epidemiology of obesity.

Prereq: 7410 and PubHBio 6211, or permission of instructor. Not open to students with credit for 819.

Public Health: Health Behavior & Health Promotion

PUBHHBP

Summer 2024 Term**6515 Advanced Preventing Disease and Promoting Health****G** 3

This course will address the philosophical underpinnings, health behavior theories, and strategies for effective behavioral and social change efforts in public health.

Prereq: Enrollment in College of Public Health Graduate Program with specialization in Health Behavior and Health Promotion.

Public Health

PUBHLTH

Summer 2024 Term

7350.02 Topics in Applied Public Health Practice - Leadership

G 1 - 3

Includes theory and applications relevant to specific rubrics of applied public health practice, with a theme of public health management and leadership.

Repeatable to a maximum of 12 cr hrs or 6 completions. This course is graded S/U.

Renewable Energy

RNEWNRG

Summer 2024 Term

2035T Wind Energy Systems

U 3

This course encompasses wind energy systems including the underlying principles and concepts, system components, common system configurations, siting, design, environmental considerations, economic analysis and grid integration.

Prereq: 2010T. This course is available for EM credit.

Spanish

SPANISH

Spring 2025 Semester

3403H Intermediate Spanish Composition

U 3

Students work toward a final portfolio featuring the following genres: literary essay, self-portrait, argumentative essay, interview feature article, & short story. During the short-story portion, students collaborate with Spanish-speaking children in Columbus City Schools as part of the literacy outreach initiative, which culminates in publishing bilingual storybooks in ?Que pasa? OHIO STATE.

Prereq: Honors standing, a grade of C- or above in 2202 or 2213, and GPA 3.4 or above. May be taken concurrently with 3401 and/or 3404. Not open to students with credit for 3403, 3413, 4603, or 4613.

Statistics

STAT

Autumn 2025 Semester

7303 Bayesian Analysis and Decision Theory

G 3

Decision theory, loss functions, subjective and objective prior distributions, posterior distribution, estimation, testing, prediction, sensitivity analysis, hierarchical modeling. Intended primarily for PhD students in Statistics or Biostatistics.

Prereq: 7301 or 622, or permission of instructor. Not open to students with credit for 820.