

September 2024

Course Subject Change

Teaching and Learning Critical and Transformative

TLCTE

Autumn 2025 Semester

Previous Subject: [EDUTL](#)

2100 Dramatic and Arts-Based Teaching and Learning

U 3

Students will become comfortable with, and knowledgeable about arts integration: dramatic and arts-based approaches to teaching and learning in diverse settings (schools, art museums, theatres, community centers).

Prereq: [Not open to students with credit for EDUTL 2100.](#)

Autumn 2025 Semester

Previous Subject: [EDUTL](#)

7625 Technology in Language Learning and Teaching

G 3

Intro to application of technology for multilingual language education research and pedagogy. Explore and discuss using technology to promote language learning and teaching, and methodological aspects of conducting research about Computer-Assisted Language Learning, Technology-Enhanced Language Learning, Web-Enhanced Language Learning, & Mobile-Assisted Language Learning. Suggested that students have prior or current experience learning and/or teaching additional languages using technology.

Prereq: [Not open to students with EduTL 7625.](#)

Autumn 2025 Semester

Previous Subject: [EDUTL](#)

7645 Research and Policy in Language Assessment

G 3

Focuses on theories and practices for testing and assessing the knowledge and skills of second language learners. Topics include constructing tests and assessments, validity, reliability, grading, and test score interpretation test scores.

Prereq: Enrollment in a graduate program in T&L or graduate non-degree program. [Not open to students with credit for EDUTL 7645.](#)

Autumn 2025 Semester

Previous Subject: [EDUTL](#)

8380 Current Issues in Critical Transformative Education

G 3

In-depth examination of major trends and issues related to the graduate specializations within the area of Critical Transformative Education (CTE). This course will use an interdisciplinary and intersectional lens to explore current topics in the field of education in areas such as, literacy, race, justice, equity, multilingual language education, the arts, and languaging.

Prereq: [Not open to students with credit for EduTL 8380.](#)

Teaching and Learning Education

TLED

Autumn 2025 Semester

Previous Subject: [EDUTL](#)

2189 Field Experience

U 1 - 2

[The TLED 2189 field experience is designed to provide undergraduate students, in pre-education programs, with an opportunity to work with youth within a professional setting in a school, tutoring environment or community agency.](#)

Prereq: Permission of instructor. [Not open to students with credit for EDUTL 2189.](#) Repeatable to a maximum of 15 cr hrs or 15 completions.

Autumn 2025 Semester*Previous Subject: [EDUTL](#)***2368 Introduction to Children's Literature****U 3**

This is a survey course in which students study the historical and contemporary elements of literature intended for children, including picturebooks; traditional tales; novels of realism, and fantasy; nonfiction; poetry; and multicultural books.

Prereq: English 1110, or equiv. [Not open to students with credit for EduTL 2368.](#) GE lit course. GE foundation lit, vis and performing arts course.

Teaching and Learning Intercultural English Language**TLIELP****Autumn 2025 Semester***Previous Subject: [EDUTL](#)***1010 Intensive English: Integrated Skills****U 0**

Integrated Skills for students in the Intensive English Program.

Prereq: Admission to American Language Program, and permission of Director. [Not open to students with credit for EDUTL 1010.](#) Repeatable to a maximum of 10 completions.

Autumn 2025 Semester*Previous Subject: [EDUTL](#)***1120 Intercultural Communication for Undergrad Business & Pre-business Majors****U 2**

This performance-based course focuses on the speaking skills that facilitate success in the Fisher College of Business, OSU, and ultimately in the global business community. Aimed at helping first-year international undergraduate students, the course features activities, discussions, and readings related to cross-cultural conventions of spoken English and business English.

Prereq: First-year international student in the Fisher College of Business, and students who scored 24 or below on the oral proficiency section of the TOEFL. [Not open to students with credit for EDUTL 1120.](#)

Autumn 2025 Semester*Previous Subject: [EDUTL](#)***1901 Introduction to Academic Writing for Multilingual Undergraduate Students****U 3**

Course focuses on building fundamental writing and critical thinking skills. As students engage in writing informational and evaluative texts, they will learn to make fundamental rhetorical choices and build necessary skills used in writing multiple paragraph essays. Additionally, students will read critically and evaluate the reliability and effectiveness of information sources.

Prereq: Placement test score of 1901. [Not open to students with credit for EDUTL 1901.](#)

Autumn 2025 Semester*Previous Subject: [EDUTL](#)***1902 Advanced Academic Writing for Multilingual Undergraduate Students****U 3**

Course emphasizes critical reading of diverse texts and applying varied writing strategies used in common academic genres to student writing. Students will learn to make appropriate decisions about integrating sources into their texts while maintaining a clear boundary between their own work and that of others.

Prereq: 1901, or placement test score of 1902. [Not open to students with credit for EDUTL 1902.](#)

Autumn 2025 Semester*Previous Subject: [EDUTL](#)***1902.04 Academic Writing in English as a Second Language****U 4**

Attention given to various practices involving reading and source-based writing. Rhetorical and linguistic issues addressed. Synthesis and argumentative writing in response to literary and nonliterary texts. Intended for undergraduates.

Prereq: Placement test. [Not open to students with credit for EDUTL 1902.04.](#)

New Course**Astronomy****ASTRON**

Spring 2025 Semester**2020 The Night Sky****U 3**

This course uses the planetarium and observations of the sky to understand the motion of the Sun, Moon, and planets, and how humans have interpreted them. It considers the large number of foreign worlds that have been discovered orbiting the Sun and other stars, and visualizes their skies. It reflects on how the night sky affects human cultures, and how it might affect cultures on other worlds.

Prereq: Not open to students with credit for 1140 or 2140. GE theme lived environments course.

Business Admin: Management & Human Rsrcs**BUSMHR****Spring 2025 Semester****8030 Seminar in International Business****G 1½ - 3**

This PhD-level seminar provides an introductory overview of key research streams in the field of international business.

Prereq: Enrollment in Fisher College of Business PhD program, or permission of instructor. Repeatable to a maximum of 6 cr hrs or 2 completions.

Spring 2025 Semester**8040 Seminar in Organizational Theory and Design****G 1½ - 3**

This PhD seminar is intended to introduce students to the foundational questions and perspectives in research on organizational theory and organization design. We will examine organizational research from multiple disciplinary viewpoints (e.g., sociology, economics, political science, etc.), and cover canonical pieces to more contemporary research.

Prereq: Enrollment in Fisher College of Business PhD program, or permission of instructor. Repeatable to a maximum of 6 cr hrs or 2 completions.

Spring 2025 Semester**8070 Seminar in Research Methods in Strategy and International Business****G 1½ - 3**

This course provides a PhD-level overview of the statistical tools used to study non-experimental phenomena within and between organizations. The course is designed to help participants improve their ability to apply and evaluate research using methodological approaches commonly used in high-quality, non-experimental management research.

Prereq: Enrollment in Fisher College of Business PhD program; or permission of instructor. Repeatable to a maximum of 6 cr hrs or 2 completions.

Computer Science and Engineering**CSE****Spring 2025 Semester****6013 Data Structures Using Java****G 3**

Subroutines and modular programming; searching; basic data structures; recursion; introduction to sequential files.

Prereq: 6012.

Design**DESIGN****Spring 2025 Semester****6230 Research Through Design Studio****G 3**

A studio environment in which graduate students have the opportunity to conduct thesis topic exploration and development in using research through design in the areas of digital animation and interactive media (DAIM) or design research and development (DRD).

Prereq: Grad Standing in Design MFA program. Repeatable to a maximum of 9 cr hrs.

Spring 2025 Semester**6441 Co-Design Studio****G 3**

This studio is an interdisciplinary, team-based, hands-on learning experience including projects, student-led events, guest lectures and discussions. Students explore both problems and solutions collaboratively through co-design approaches to an annual topic. Students learn how to plan, execute, analyze, document, and communicate co-design research findings and insights.

Prereq: Grad standing. Repeatable to a maximum of 3 cr hrs.

Economics**ECON****Spring 2025 Semester****4410 Data Management and Econometric Analysis****U 3**

Students will learn the programming skills necessary to manage projects, import data, clean data, and produce high quality output from econometric models in Python. By the end of the course students will be proficient with data-based tasks in the Python programming language and be capable of applying those skills to econometrics.

Recommended prerequisite or concurrent courses: Econ 4400 or 5410.

Prereq: 3400, or IntStds 3400, or Stat 1430.01, or 1450.01, or 2450.01, or AEDEcon 2005, or equiv.

Engineering Technology**ENGTECH****Spring 2025 Semester****2450T Class A Commercial Driver's License (CDL) Entry Level Driver Training (ELDT)****U 3**

In this course students will complete all training necessary to take a Commercial Driver's License (CDL) Exam with the state of Ohio. Students will receive instruction from ATI instructors, who are experienced to teach a commercial driver course, through class time and driving time in order to help prepare them for the CDL test and will learn to be proficient at pre-trip and operational skills. Must have valid state issued driver's license. Must hold a valid Ohio Commercial Learners Permit. Must pass Department of Transportation (DOT) Physical and Drug Test. A major must be declared, and the student must be full-time as part of a designated major. (These requirements are due to the institutions exemption status as a state-licensed school under exemption 4508.7, sections 4508.1 to 4508.6.

Prereq: Permission of instructor.

Ethnic Studies**ETHNSTD****Spring 2025 Semester****3408 Disaster, Displacement and Recovery in 21st Century Latinx Graphic Narratives****U 3**

This course explores notions of disaster, forced displacement, crisis and recovery in Latinx graphic narratives of the 21st century. Students will experience comics as a unique and full-bodied communication form putting special emphasis on non-fictional comic art created, produced, and distributed by Latinx-identified multidisciplinary sources and independent artists.

Prereq: Not open to students with credit for HistArt 3408. GE theme migration, mobility, and immobility course.

Cross-listed in HistArt.

Spring 2025 Semester**3562 Contemporary U.S. Latinx Art****U 3**

This course provides an overview of contemporary Latinx Art in the United States from its origins in the 1960s Civil Rights Movement through today. U.S. Latinx Art refers to the artistic, visual, and creative production emerging from Latinx communities in the context of diaspora after immigration from Latin America.

Prereq: Not open to students with credit for HistArt 3562. GE theme citizenship for div and just wrld and migration, mobility, and immobility course. Cross-listed with HistArt.

Food, Agricultural, and Biological Engineering**FABENG****Spring 2025 Semester****3797 Study at a Foreign Institution****U 1 - 15**

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

Acceptance into an OSU approved global education program is required.

Prereq: Permission of Instructor. Repeatable to a maximum of 30 cr hrs or 10 completions.

Spring 2025 Semester**7680 Advanced Carbohydrate Chemistry and Technology****G 3**

The course will cover molecular structure, properties, and functions of carbohydrates. Strong emphasis will be given to starch and non-starch polysaccharides, modification, applications, and uses in the different areas. Students taking the class will gain experience in the structure-function properties of a variety of carbohydrates used in the production of foods and non-food products.

Prereq: Grad standing, and Chem 2510, and 2520, or equivalent; or permission of instructor.

History of Art**Spring 2025 Semester****3408 Disaster, Displacement and Recovery in 21st Century Latinx Graphic Narratives****U 3**

This course explores notions of disaster, forced displacement, crisis and recovery in Latinx graphic narratives of the 21st century. Students will experience comics as a unique and full-bodied communication form putting special emphasis on non-fictional comic art created, produced, and distributed by Latinx-identified multidisciplinary sources and independent artists.

Prereq: Not open to students with credit for EthnStd 3408. GE theme migration, mobility, and immobility course. Cross-listed in EthnStd.

Spring 2025 Semester**3562 Contemporary U.S. Latinx Art****U 3**

This course provides an overview of contemporary Latinx Art in the United States from its origins in the 1960s Civil Rights Movement through today. U.S. Latinx Art refers to the artistic, visual, and creative production emerging from Latinx communities in the context of diaspora after immigration from Latin America.

Prereq: Not open to students with credit for EthnStd 3562. GE theme citizenship for div and just wrld and migration, mobility, and immobility course. Cross listed with EthnStd.

Spring 2025 Semester**3610 History of Photography****U 3**

This course is an overview of the history of photography from its invention in the early 19th century to the present. In this course, we will examine how photography as a form of art and communication, including its use as a mode of creative expression, documentation, advertising, and journalism.

Spring 2025 Semester**4240 Arts of the Black Atlantic****U 3**

This class explores the visual and cultural history of the Black Atlantic - a phrase used to define the relationship between dissonant geographical locations that were forged into relationship with each other through the Transatlantic Slave Trade. Of particular focus will be how and why migration and mobility come to be contested terms for Black artists, critics, and activists.

GE theme migration, mobility, and immobility course.

Microbial Infection and Immunity**Spring 2025 Semester****8100 Advanced Immunotherapeutics****G 3**

This is a graduate-level course comprising lectures and seminars that explore diverse topics and recent advancements in the field of immunotherapy. The reading materials will be drawn from primary sources in the current scientific literature. The seminar sessions will be designed to encourage active participation and critical analysis of the assigned readings.

Prereq: 7010.

Neuroscience Department

Spring 2025 Semester**4207 The Dark History of Treatments for Neurologic Conditions****U 3**

This course will provide students with an overview of medical treatments across time from the peculiar to the macabre. Specifically, this course will introduce students to the remedies our ancestors used to treat and cure disease. Using knowledge gained, students will evaluate the legitimacy of treatment options currently available.
Prereq: 3000.

Political Science**POLITSC****Spring 2025 Semester****3275 Politics of Sports****U 3**

Introduces students to the interactions between politics and the world of sports.

Psychology**PSYCH****Spring 2025 Semester****2001 Personal Wellness and Mental Health****U 1**

Personal wellness and mental health are important determinants of success. We introduce evidence-based strategies for managing stress, warding off / combatting anxiety and depression, and promoting wellness. We aim to provide students a psychological toolkit that they can rely on in facing a variety of challenges as they progress through the university experience and the following years.

Prereq: Not open to students with credit for ArtsSci 2001. Cross-listed in ArtsSci.

Public Affairs, John Glenn College**PUBAFRS****Spring 2025 Semester****5570 Data Governance for Public Organizations****U G 3**

This class focuses on data governance with an emphasis on cybersecurity. It covers risk management, data security, information quality, and data modeling. Students engage in case studies and simulations to apply concepts, preparing them to manage data effectively in public, private, and non-profit sectors. The curriculum also includes discussions on ethical considerations and regulatory compliance. Students should have prior experience with conducting data analysis. At least junior undergraduate status is strongly suggested. Students are encouraged to contact the instructor if they have concerns about their level of preparation.

Slavic Languages and Literatures**SLAVIC****Spring 2025 Semester****3711 Theatre, Identity, and Citizenship in Eastern Europe****U 4**

How have theatre and performance reflected on issues of citizenship in Eastern Europe? How have they wrestled with the national, ethnic, gender, religious, and cultural identities of their authors, performers, and audiences? This course approaches these questions from multiple angles - through readings and discussions as well as theatrical practice of staging scenes from our plays.

Prereq: Not open to students with credit for Theatre 3711. GE theme citizenship for div and just wrld course, High-Impact Practice Research and Creative Inquiry. Cross-listed in Theatre.

Theatre**THEATRE****Spring 2025 Semester****3711 Theatre, Identity, and Citizenship in Eastern Europe****U 4**

How have theatre and performance reflected on issues of citizenship in Eastern Europe? How have they wrestled with the national, ethnic, gender, religious, and cultural identities of their authors, performers, and audiences? This course approaches these questions from multiple angles - through readings and discussions as well as theatrical practice of staging scenes from our plays.

Prereq: Not open to students with credit for Slavic 3711. GE theme citizenship for div and just wrld course, High-Impact Practice Research and Creative Inquiry. Cross-listed in Slavic.

Electrical and Computer Engineering

ECE

Spring 2025 Semester**5570 Antiracist Technology****U G 4**

Discrimination against racial and ethnic minorities is prevalent, systemic, and global. Racism and racial justice principles are outlined. Case studies on racist technologies, those that promote or sustain racism, are studied. Engineering design methodology is used to modify or create several new technologies that help the antiracist oppose racism.

Prereq: Engr 1182, 1282, Grad standing in Engr, or permission of instructor.

Pharmacy

PHR

Summer 2024 Term**4470 Contemporary Pharmacology****U 1**

Exploration of current research topics in pharmacology through discussions of recently published pharmacology papers. Enrollment with permission of Instructor.

Prereq: 4000, 4400, or 4460; and permission of instructor. Repeatable to a maximum of 3 ch hrs.

Summer 2024 Term**5500 History of Pharmacy****U P 3**

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Summer 2024 Term**5500 History of Pharmacy****U P 3**

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Summer 2024 Term**5500 History of Pharmacy****U P 3**

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Summer 2024 Term**5500 History of Pharmacy****U P 3**

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Summer 2024 Term**5500 History of Pharmacy****U P 3**

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Summer 2024 Term**5500 History of Pharmacy****U P 3**

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Summer 2024 Term**5500 History of Pharmacy****U P 3**

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Summer 2024 Term**5500 History of Pharmacy****U P 3**

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Summer 2024 Term**7130 Humanistic Pharmacy****P 2**

The fundamental principles of humanistic practice are open communication, mutual respect, and absence of judgment between patients and health care providers. This course will use current literature, patient cases, speakers, personal reflection, and group exercises to empower students to provide and advocate for humanistic healthcare.

Prereq: Enrollment in the PharmD program.

Remove from Limbo

Art Education	ARTEDUC
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Spring 2025 Semester**2600H Visual Culture: Investigating Diversity & Social Justice****U 3**

A study of the artists, the artworks, and art worlds from diverse ethnic cultures in North America. This course will develop students' skills in writing, reading, critical thinking, and oral expression and foster an understanding of the pluralistic nature of institutions, society, and culture(s) of the United States.

Prereq: Honors standing, and EduTL 1902, or 1902.04, or IELP WRITE score of 80, or English Placement Level 4. Not open to students with credit for 2367.01, 2367.01H, or 2600. GE writing and comm course: level 2 and VPA and diversity soc div in the US course. GE foundation writing and info literacy and lit, vis and performing arts and race, ethnicity and gender div course.

Athletic Training	ATHTRNG
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Spring 2025 Semester**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.

Business Admin: Finance	BUSFIN
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Spring 2025 Semester

7235 Applied Fundamental Investing

G 1½

To find employment in this industry, it is necessary to know some of the specialized skills that are required, skills above and beyond those taught in typical Investments and Corporate Finance courses. The goal of this course is to provide an introduction to the tools needed to enter the field of professional money management.

Prereq: MBA 6223; or prereq or concur: BusFin 7210, 7220, or 7230; or enrollment in SMB-Finance program.

Civil Engineering

CIVILEN

Summer 2024 Term

7770 Infrastructure Systems Analysis

G 3

Presents a systems approach to infrastructure provision and management with a focus on the uncertainty inherent to large-scale and long-lived facilities.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 777.

City and Regional Planning

CRPLAN

Summer 2024 Term

6150 Environmental Planning and Policy for a Sustainable Future

G 3

This course incorporates environmental considerations into land use planning and policy making. Upon completion of this course students will be able to analyze environmentally related planning problems not requiring in-depth environmental expertise and recognize when such expertise is necessary.

Summer 2024 Term

6320 Seminar in Land Use Policy

G 3

Advanced seminar on topics in land use law and policy. Topics vary.

Prereq: 6300 (761), and Grad standing; or permission of instructor. Not open to students with credit for 867.

Repeatable to a maximum of 15 cr hrs.

Summer 2024 Term

6890 Workshop in City and Regional Planning

G 1 - 15

Workshop on city and regional planning issues.

Prereq: Grad standing, or permission of instructor. Repeatable to a maximum of 15 cr hrs or 5 completions.

Summer 2024 Term

6920 Urban Design/Physical Planning Studio

G 6

Improvement of the aesthetics of the built environment through the creation of a physical plan for a portion of a city using an integrative process to solve planning challenges. Course cannot be taken concurrently with other studio courses (6930, 6950, 6960, or 6970).

Prereq: 6430 (731), or permission of instructor. Not open to students with credit for 851.

Summer 2024 Term

6930 Neighborhood Planning Studio

G 6

Planning for neighborhoods engages residents and local non-profit organizations to empower them to solve planning challenges using democratic methods. Course cannot be taken concurrently with other studio courses (6920, 6950, 6960, or 6970).

Prereq: 6400 (745) and 6500 (762), or permission of instructor. Repeatable to a maximum of 12 cr hrs.

Electrical and Computer Engineering

ECE

Autumn 2024 Semester

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.

Autumn 2024 Semester

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.

Autumn 2024 Semester

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.

Autumn 2024 Semester

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.

Autumn 2024 Semester

8851 Advanced Topics in Control Theory

G 3

Current topics in control theory, optimization, and decision theory.

Prereq: Permission of instructor.

Geography

GEOG

Summer 2024 Term

5200S Cartography and Map Design

U G 3

A study of the cartographic techniques of map compilation and design including generalization, symbolization, reproduction, and GIS-based mapping with an emphasis on thematic mapping.

Prereq: Not open to students with credit for 5200 (580) or 580S. GE service learning course.

History

HISTORY

Spring 2025 Semester

7265 Studies in French History

G 1 - 6

Selected topics in French political, social, cultural, and intellectual history and historiography.

Prereq: Grad standing. Repeatable to a maximum of 15 cr hrs or 5 completions.

Materials Science and Engineering

MATSCEN

Summer 2024 Term

6700 Essentials of Materials Science for High School Educators

G 2

Provides academic background and quantitative examples to the demonstrations in the ASM Materials Foundation Materials Camps for Teachers. This requires the students in this class to deploy related content in their high school classroom settings.

Prereq: Graduate Non-Degree status, or permission of instructor.

Microbiology

MICRBIO

Spring 2025 Semester**7060 Advanced Topics in Molecular Microbiology****G 2**

Specialized metabolic pathways, regulation and control mechanisms, and bacterial biochemistry.

Prereq: 6020, or permission of instructor. Not open to students with credit for 760.

Public Health: Biostatistics**PUBHBIO****Summer 2024 Term****7899 Seminar in Biostatistics****G 1 - 3**

Seminar on topics that are relevant to students enrolled in programs in the Division of Biostatistics.

Prereq: Grad standing in PubHlth, and permission of instructor. Repeatable. This course is graded S/U.

Summer 2024 Term**8230 Advanced Longitudinal Data Analysis****G 3**

Classical and modern statistical approaches for continuous and discrete longitudinal data. Random effects and growth curve models, measurement error, generalized estimating equations, estimation with missing data, multivariate longitudinal data.

Prereq: Stat 6802 (622) and 6950 (645). Not open to students with credit for Stat 7470 (726). Cross-listed in Stat 7470 (726).

Public Health: Environmental Health Sciences**PUBHEHS****Summer 2024 Term****7350 Special Topics in Environmental Health Sciences****G 1 - 3**

Opportunity for students to pursue a particular environmental health interest that is not available through existing topical offerings.

Repeatable to a maximum of 12 cr hrs or 4 completions. This course is graded S/U.

Public Health: Epidemiology**PUBHEPI****Summer 2024 Term****6435 Chronic Disease Epidemiology****G 3**

Survey of the epidemiology of chronic diseases, including cancer, heart disease, stroke, diabetes mellitus, chronic obstructive pulmonary disease, and neurodegenerative diseases.

Prereq: 6410 or 6430, or permission of instructor. Not open to students with credit for 814.

Summer 2024 Term**7450 Topics in Epidemiology****G 1 - 6**

Regular class on topics that are relevant to students enrolled in programs in the Division of Epidemiology.

Prereq: Enrollment in Public Health, Grad standing, and permission of instructor. Repeatable to a maximum of 12 cr hrs. This course is graded S/U.

Public Health: Health Behavior & Health Promotion**PUBHHBP****Summer 2024 Term****5520 Public Health in Action****U G 2**

Directed service learning group project in partnership with a public health agency.

Summer 2024 Term**7550 Special Topics in Health Behavior and Health Promotion****G 1 - 6**

Regular class on topics that are relevant to students enrolled in programs in the Division of Health Behavior and Health Promotion.

Prereq: Grad standing. Repeatable to a maximum of 12 cr hrs or 6 completions.

Summer 2024 Term**7552 Substance Abuse Prevention****G 2**

History of substance abuse prevention efforts; theoretical foundations and elements of successful programs.
 Prereq: Enrollment in Public Health, and Grad standing; or permission of instructor. Not open to students with credit for 826.

Summer 2024 Term**7554 Cancer Behavioral Science****G 2**

Overview of behavioral issues associated with cancer at the individual and community levels.
 Prereq: Enrollment in Public Health, and Grad standing; or permission of instructor. Not open to students with credit for 828.

Public Health**PUBHLTH****Summer 2024 Term****3550 Special Topics in Public Health****U 1 - 6**

Regular class on topics that are relevant to students enrolled in programs in the College of Public Health undergraduate program.
 Prereq: Enrollment as a Public Health major or pre-major, or permission of instructor. Repeatable to a maximum of 12 cr hrs or 6 completions.

Remove from Withdrawal**Sociology****SOCIOL****Spring 2025 Semester****2382 Sociology of Asian American Life****U 3**

Introduction to Asian American life with attention to this group's social history, present status, and racial-ethnic relations.
 GE diversity soc div in the US course.

Update Course**Accounting and Management Information Systems****ACCTMIS****Spring 2025 Semester****7202 Advanced Professional Research in Accounting****G 1½**

This course deals with advanced research issues in accounting, including applying professional research techniques to complex accounting arrangements and discussing insights for professional practice of academic accounting research. Specific topics will be updated periodically based on developments in accounting practice, standard setting, and academic research.
 Prereq or Concur: 6201, and enrollment in the MAcc program; or permission of instructor.

Anatomy**ANATOMY****Spring 2025 Semester****7999 Pre-Candidacy Research in Anatomy****G 1 - 8**

Designed to enable the student to conduct an in-depth research investigation in some anatomical field of choice.
 Prereq: Permission of instructor. Repeatable to a maximum of 40 cr hrs or 20 completions. This course is graded S/U.

Spring 2025 Semester

8999 Post-Candidacy Research in Anatomy

G 2 - 8

Designed to enable the student to conduct an in depth research investigation in some anatomical field of choice.
Prereq: Permission of instructor. Repeatable to a maximum of 40 cr hrs or 20 completions. This course is progress graded (S/U).

Anthropology

ANTHROP

Spring 2025 Semester

4597.03H Models of Sustainability and Resilience, Lessons from the Past

U 3

Causes and consequences of recent and ancient environmental disasters that affected human societies are studied to illustrate how lessons from the past can be used in modern responses.

Components: SEM

Prereq: Honors standing, and Jr or Sr standing. GE soc sci human, nat, and econ resources; diversity global studies; cross-disciplinary seminar course. GE theme sustainability course.

Art Education

ARTEDUC

Spring 2025 Semester

2600 Visual Culture: Investigating Diversity & Social Justice

U 3

A study of the artists, the artworks, and art worlds from diverse ethnic cultures in North America. This course will develop students' skills in writing, reading, critical thinking, and oral expression and foster an understanding of the pluralistic nature of institutions, society, and culture(s) of the United States.

Prereq: EduTL 1902, or 1902.04, or IELP WRITE score of 80, or English Placement Level 4. Not open to students with credit for 2367.01, 2367.01H, or 2600H. GE writing and comm course: level 2 and VPA and diversity soc div in the US course. GE foundation writing and info literacy and lit, vis and performing arts and race, ethnicity and gender div course.

Spring 2025 Semester

2700 Criticizing Television

U 3

A critical analysis of a wide variety of television programs through viewing, discussing, reading, and writing. Students will focus on the ways in which racial, ethnic, and gender diversity issues are represented on television.

Prereq: EduTL 1902, or 1902.04, or IELP WRITE score of 80, or English Placement Level 4. Not open to students with credit for 2367.03, Theatre 2367.03, or 2700. GE writing and comm course: level 2 and diversity soc div in the US course. GE foundation writing and info literacy and race, ethnicity and gender div course. Cross-listed in Theatre.

Arts and Sciences

ARTSSCI

Spring 2025 Semester

2001 Personal Wellness and Mental Health

U 1

Personal wellness and mental health are important determinants of success. We introduce evidence-based strategies for managing stress, warding off / combating anxiety and depression, and promoting wellness. We aim to provide students a psychological toolkit that they can rely on in facing a variety of challenges as they progress through the university experience and the following years.

Prereq: Not open to students with credit for Psych 2001. Cross-listed in Psych.

Chemical and Biomolecular Engineering

CBE

Spring 2025 Semester

5200 Introduction to Petroleum Engineering

U G 3

Introduction to petroleum engineering, including fundamental petroleum engineering concepts, quantities and unit systems, petroleum geology, exploration, drilling, reservoir engineering, fluids and rock properties, production, well testing, enhanced/improved oil recovery.

Prereq: 2200; or Jr or Sr standing in Engineering, Earth Sciences or Business; or permission of instructor.

Chemistry

CHEM

Spring 2025 Semester

1220 General Chemistry II

U 5

Continuation of 1210 for science majors, covering solutions, kinetics, chemical equilibrium, solubility and ionic equilibria, qualitative analysis, thermodynamics, electrochemistry, descriptive chemistry, coordination compounds, and nuclear chemistry.

Prereq: 1210, 1215, 1250, 1610, or 1910H, and Math Placement Level L or M, or a grade of C- or above in Math 1120, 1130, 1131, 1148, or 1150, or above; or credit for both Chem 1206 and 1208. This course is available for EM credit. GE nat sci phys course. GE foundation natural sci course.

Spring 2025 Semester

4300 Physical Chemistry I

U 3

Quantum mechanics, spectroscopy, and statistical mechanics.

Prereq: 2210, 2510, 2610, 2910H, or equiv, and Physics 1200 or 1250. Prereq or concur: Math 2177, 2255, 2415 or 2173.

Comparative Studies

COMPSTD

Spring 2025 Semester

2101H Literature and Society

U 3

This course analyzes social and political elements of literature and film from diverse cultures and historical periods, through an intersectional study of race, ethnicity, and gender.

Prereq: GE foundation writing and info literacy course. Not open to students with credit for 2101. GE foundation lit, vis and performing arts and race, ethnicity and gender div course.

Computer Science and Engineering

CSE

Spring 2025 Semester

5463 Introduction to Wireless Networking

U G 3

Fundamental concepts in cellular design, Wireless-LANs, MANETs, and sensor networks will be explored. Specific topics will include propagation, fading, cellular-design, power-management, routing, scheduling, and control.

Prereq: 3461, or ECE 3561, and Stat 2450, or 3470; or Grad standing in Engineering or Math and Physical Sciences. Cross-listed in ECE 5101.

Electrical and Computer Engineering

ECE

Spring 2025 Semester

5101 Introduction to Wireless Networking

U G 3

Fundamental concepts in cellular design, Wireless-LANs, MANETs, and sensor networks will be explored. Specific topics will include propagation, fading, cellular-design, power-management, routing, scheduling, and control.

Undergrad Prereq: 3561, or CSE 3461, and STATS 3470.xx. Grad Prereq: Grad standing in Engineering or Math and Physical Sciences. Not open to students with credit for CSE 5463. Cross-listed in CSE 5463.

Spring 2025 Semester

5832 Photovoltaics and Energy Conversion

U G 3

Photovoltaic materials and devices; solar cell device physics; solar cell simulation, design and operation; silicon cell technologies; thin film technologies; III-V technologies; nanostructures; terrestrial and space applications.

Prereq: 3030, or MatScEn 3271, or Grad standing in Engr or Physics.

Spring 2025 Semester

8001 Advanced Topics in Communications

G 3

Current topics in information theory and the practice of digital communications.

Prereq: 6001. Repeatable to a maximum of 6 cr hrs.

Film Studies

FILMSTD

Spring 2025 Semester

2367.01 The American Film Auteur

U 3

An intermediate course centering around the work of one important US filmmaker that extends and refines expository writing and analytic reading / viewing skills. GEL students should complete English 1110 prior to enrollment.

Prereq: EduTL 1902, or 1902.04, or IELP WRITE score of 80, or English Placement Level 4. Repeatable to a maximum of 6 cr hrs. GE writing and comm course: level 2. GE foundation writing and info literacy course.

Spring 2025 Semester

2367.02 The American Film Genre

U 3

An intermediate course centering around the works of one important US film genre that extends and refines expository writing and analytic reading / viewing skills. GEL students should complete English 1110 prior to enrollment.

Prereq: EduTL 1902, or 1902.04, or IELP WRITE score of 80, or English Placement Level 4. Repeatable to a maximum of 6 cr hrs. GE writing and comm course: level 2. GE foundation writing and info literacy course.

Law

LAW

Spring 2025 Semester

6121 Contracts I

G L 3 - 4

Remedies for breach; offer and acceptance; consideration; third party beneficiaries; assignment of rights and delegation of duties; conditions; impossibility and frustration; statute of frauds.

Spring 2025 Semester

7106 Legal Negotiation and Settlement

G L 2 - 4

Study of the theory, law, and practice of transactional and settlement negotiations through actual negotiations by individual students in a variety of legal negotiation settings.

Spring 2025 Semester

7200 Business Associations

G L 3 - 6

Formation, financing, governance, and regulation of corporations and partnerships, and including problems under the federal securities laws.

Prereq: Not open to students with credit for 7203.

Spring 2025 Semester

7228 Regulatory Compliance

G L 2 - 3

Analyzes the legal, ethical and policy foundations of regulatory compliance: the effort to translate statutory requirements into compliant corporate and individual behavior.

Spring 2025 Semester

7804 The Law of Cyberspace

G L 2 - 3

Allows students with varying backgrounds to confront the cutting-edge legal issues that arise from technological change and the Internet.

Spring 2025 Semester

7805 Data Privacy and Cybersecurity Regulation and Compliance

G L 3

This course examines the legal, policy, operational and risk management issues related to data privacy and data protection in a digital world. The focus is U.S. law, with an overview EU framework. This is an advanced legal class. It would be helpful to have an understanding of regulatory and administrative law.

Spring 2025 Semester

7815 Introduction to Intellectual Property

G L 2 - 3

An introduction to the various forms of intellectual property law.

Not open to students with credit for a combination of two or more of the following courses: 7800, 7803, 7809.

Spring 2025 Semester

8109 Employment Discrimination Law

G L 2 - 4

A constitutional and statutory study of federal and state laws that proscribe employment discrimination based upon race, color, religion, sex, national origin, age, and physical and mental handicap.

Spring 2025 Semester

8189.50 Law Externships

L 2 - 8

Law Externships consists of two components: fieldwork and coursework. Permitted field placements are public interest, government, judicial, and corporate/in-house and are subject to the approval of the Externship Director. Fieldwork in a law firm setting is strictly prohibited. The coursework component will facilitate the development of lawyering skills and prompt guided reflection.

Repeatable to a maximum of 8 cr hrs or 3 completions. This course is graded S/U.

Spring 2025 Semester

8700 Federal Income Taxation

G L 3 - 5

Gross income; deductions; credits; attribution; timing; sales and other dispositions of property; characterization of income and deductions.

Spring 2025 Semester

8809 Health Law

G L 2 - 4

Selected issues in the practice of medicine; medical malpractice, ethical issues, regulation of the health care industry, and use of medical testimony and proof in litigation.

Medicine, College of

MEDCOLL

Spring 2025 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).

Neuroscience Department

NEUROSC

Spring 2025 Semester

7715 Principles of Neural Circuit Design and Function

G 2

This course will describe how neurons and neural circuits process sensory information and control behavior. It will focus on explaining why neural circuits demonstrate specific organizational principles that are conserved through evolution and fundamental to nervous system function. It is intended to explain theory and provide practical examples through both lectures and interactive discussions.

Prereq: Permission of instructor.

Nursing

NURSING

Spring 2025 Semester

2890.02H Sophomore Honors Seminar II

U 2

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

Prereq: Honors standing, and 2890.01H; or permission of instructor.

Spring 2025 Semester

4341 Nursing Clinical Judgement in the Care of Psychiatric and Mental Health Conditions

U 4

This course will apply nursing knowledge in the promotion of mental health and recovery of individuals with psychiatric diagnoses and their families.

Prereq: 3240, 3260, 3271, 3272, 3280, 3460, and 3780, and enrollment in BSN traditional program; or enrollment in LPN to BSN track; or enrollment in aBSN program; or permission of instructor.

Spring 2025 Semester

4401 Innovative Strategies in Leadership and Systems-based Practice

U 2

This course will address leadership and management concepts as applied to nursing practice and system-based approaches in a variety of healthcare settings.

Prereq: 3240, 3260, 3271, 3272, 3280, 3460, and 3780, and enrollment in BSN traditional program; or enrollment in LPN to BSN track; or enrollment in aBSN program; or permission of instructor.

Autumn 2024 Semester

4999 Undergraduate Thesis Research

U ½ - 5

Supervised undergraduate nursing thesis research.

Prereq: Jr or Sr standing, or permission of instructor. Repeatable to a maximum of 20 cr hrs or 6 completions.

This course is graded S/U.

Philosophy

PHILOS

Spring 2025 Semester

2367 Contemporary Social and Moral Problems in the U.S.

U 3

An introductory philosophy course designed to develop your writing and information literacy skills through a careful examination of a contemporary matter of social and moral concern. GEL students should complete English 1110 prior to enrollment.

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

Pharmacy

PHR

Spring 2025 Semester

7150 Pediatric Pharmacotherapy

P 3

This course will orient students to many aspects of pediatric pharmacy as it pertains to pathophysiology and pharmacotherapy of selected diseases. The course is intended to expose students to pediatric pharmacy practitioners as potential role models and mentors. It is designed to create a basic didactic foundation for students choosing clinical rotations in a pediatric setting.

Prereq: Second year standing or higher in the PharmD program; or permission of instructor.

Physiology and Cell Biology

PHYSIO

Spring 2025 Semester

3204 Human Physiology Laboratory

U 3

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

Prereq: 3200, or a grade of B or above in EEOB 2520, and 3 credits of Biological Sciences.

Psychology

PSYCH

Spring 2025 Semester

2311 Psychology of Motivation
U 3

Campus: COL LMA
MNS MRN NWK WST

In this course we will survey (while reflecting on everyday applications) the integral role that motivation and related concepts, such as drive, need, affect, and emotion, play within Psychological Science to understand human behavior and identity formation.
GE theme health and well-being course.

Spring 2025 Semester

3522 Organizational Psychology
U 3

Overview of theory, method, and practice of organizational psychology: motivation, job attitudes, leadership, groups, organizational design.
Prereq: 1100. Not open to students with credit for 4522.

Public Affairs, John Glenn College

PUBAFRS

Spring 2025 Semester

7900 Capstone: Research Paper in Public Affairs
G 3

Students integrate the knowledge and skills gained throughout the MA/MPA program by applying theory to practice through an in-depth policy or management analysis of a defined topic or a specific organization.
Prereq: 6000, 6040, 6070, 6080, and 6050 or 7553; or permission of instructor. Repeatable to a maximum of 12 cr hrs.

Spring 2025 Semester

7910 Capstone: Public Policy Issues
G 3

Students integrate the knowledge and skills gained throughout the MA/MPA program by applying theory to practice through an in-depth Public Policy analysis of a defined topic or a specific organization.
Prereq: 6000, 6040, 6070, 6080, and 6050 or 7553; or permission of instructor. Repeatable to a maximum of 12 cr hrs.

Spring 2025 Semester

7930 Capstone: Public Budgeting and Finance
G 3

Students integrate the knowledge and skills gained throughout the MA/MPA program by applying theory to practice through an in-depth Public Budgeting and Finance analysis of a defined topic or a specific organization.
Prereq: 6000, 6040, 6070, 6080, and 6050 or 7553; or permission of instructor.

Spring 2025 Semester

7940 Capstone: Public Management
G 3

Students integrate the knowledge and skills gained throughout the MA/MPA program by applying theory to practice through an in-depth Public Management analysis of a defined topic or a specific organization.
Prereq: 6000, 6040, 6070, 6080, and 6050 or 7553; or permission of instructor.

Spring 2025 Semester

7950 Capstone: Nonprofit Projects
G 3

In this capstone course, students integrate the knowledge and skills gained throughout the MA/MPA program by applying theory to practice through a nonprofit consulting or research project.
Prereq: 6000, 6040, 6070, 6080, and 6050 or 7553; or permission of instructor.

Spring 2025 Semester

7960 Capstone: Information Management
G 3

Integrate the knowledge and skills gained throughout the MA/MPA program by applying theory to practice through an in-depth Information Management analysis of a defined topic or a specific organization.
Prereq: 6000, 6040, 6070, 6080, and 6050 or 7553; or permission of instructor.

Spring 2025 Semester

7970 Capstone: Policy in an International Context

G 3

Students integrate the knowledge and skills gained throughout the MA/MPA program by applying theory to practice through an in-depth International Context analysis of a defined topic or a specific organization.
Prereq: 6000, 6040, 6070, 6080, and 6050 or 7553; or permission of instructor.

Spring 2025 Semester

7980 Capstone: MPA-DC

G 3

This course builds on the core curriculum that students have completed in their first year, focusing on the people and processes governing the work of federal agencies. This class provides an opportunity for students to integrate the knowledge and skills gained in the MPA program by applying theory to practice on a topic of each student's choice.
Prereq: 6000, 6040, and 6050; or 7553, 6070, and 6080; or permission of instructor.

South Asia Studies

SASIA

Spring 2025 Semester

5241 Interdisciplinary Approaches to South Asian Studies

U G 3

*Campus: COL LMA
MNS MRN NWK WST*

A connection of the disparate threads of the geographic and cultural entity of South Asia, offering an overview and interdisciplinary perspective on the factors that affect everyday life in the region.
Prereq: English 1110, or GE foundation writing and info literacy course. Not open to students with credit for NELC 5241. GE theme traditions, cultures, and transformations course.

Sociology

SOCIOL

Spring 2025 Semester

2211S Corrections: An OPEEP Course

U 3

*Campus: COL LMA
MNS MRN NWK WST*

Examines theory and policy, and is comprised of OSU students and prison inmates with class meetings held in a local state prison. Though course is repeatable, only one iteration will count for GE credit.
Prereq: Permission of instructor. Repeatable to a maximum of 6 cr hrs. GE service learning course.

Spring 2025 Semester

4635 Gender and Society

U 3

*Campus: COL LMA
MNS MRN NWK WST*

Advanced seminar on the social and personal meanings of masculinity and femininity and variations across race-ethnicity, sexuality, and social class. Examines gender as a social phenomenon and system of social practices.
Prereq: Jr or Sr standing; or permission of instructor, or department.

Theatre

THEATRE

Spring 2025 Semester

2367.02 African American Theatre History

U 3

Examination of aesthetic and sociological evolution in America of African American theatre, literature, and film. GEL students should complete English 1110 prior to enrollment.
Prereq: EduTL 1902, or 1902.04, or IELP WRITE score of 80, or English Placement Level 4. GE writing and comm course: level 2 and lit and diversity soc div in the US course. GE foundation writing and info literacy and lit, vis and performing arts course.

Spring 2025 Semester

2700 Criticizing Television

U 3

A critical analysis of a wide variety of television programs through viewing, discussing, reading, and writing. Students will focus on the ways in which racial, ethnic, and gender diversity issues are represented on television. Prereq: Prereq: EduTL 1902, or 1902.04, or IELP WRITE score of 80, or English Placement Level 4. Not open to students with credit for 2367.03, ArtEduc 2367.03, or 2700. GE writing and comm course: level 2 and diversity soc div in the US course. GE foundation writing and info literacy and race, ethnicity and gender div course. Cross-listed in ArtEduc.

Welding Engineering

WELDENG

Spring 2025 Semester

7002 Physical Principles of Welding Processes II

G 3

Study of the application of physical principles in engineering of non-arc welding processes and equipment. Prereq: Grad standing in Engineering; or permission of instructor. Not open to students with credit for 4002.

Spring 2025 Semester

7023 Brazing and Soldering

G 3

Brazing and soldering processes with emphasis on physical and metallurgical principles, materials, design and application considerations.

Prereq: Grad standing in Welding Engineering or Materials Science and Engineering; or permission of instructor. Not open to students with credit for 4023.

Spring 2025 Semester

7024 High Energy Density Welding Processes

G 2

Theory and practice of laser, electron beam, and other high energy density welding processes.

Prereq: 7001, or 7002; and Grad standing in Welding Engineering or Materials Science and Engineering; or permission of instructor. Not open to students with credit for 4024.

Spring 2025 Semester

7112 Weldability

G 3

Teaches the basic concepts of weldability and focuses on failure mechanisms in welded construction. Failure phenomena that occur during fabrication, repair, and during service are discussed.

Prereq: 7101, and Grad standing; or permission of instructor. Not open to students with credit for 4112.

Withdraw Course

Accounting and Management Information Systems

ACCTMIS

Summer 2024 Term

5000 Accounting and Cost Analysis

U G 3

An introduction to accounting and cost analysis for planning, decision-making, and control.

Prereq: ISE 2000 (500) and 2040 (504), or enrollment in MBLE program. Not open to students with credit for 501.

Summer 2024 Term

6050 Accounting and Financial Analysis for Decision Making

G 3

Develops an understanding of accounting fundamentals for managers and builds skills for making corporate investment and financial decisions including risk analysis.

Prereq: Admission to the SMB-Marketing Program or MBLE Program. Not open to students with credit for MBA 6211, 6221, 800, 801, or 810.

Anatomy

ANATOMY

Summer 2024 Term**7892 Advanced Topics in Injury Biomechanics****G 2**

This is an advanced discussion-based seminar exploring new methods and research in injury biomechanics.

Prereq: Grad standing in Engineering, or permission of instructor.

Architecture**ARCH****Summer 2024 Term****1100E Architecture Survey Honors****U 1**

Introduction to the University, the Knowlton School of Architecture and the professions of architecture, city and regional planning and landscape architecture. Honors section.

Prereq: Honors standing. Not open to students with credit for 1100, 100, 100H, CRPlan 1100 (100), 1100E, LArch 1100 (100), 1100E, or any survey course. Cross-listed in LArch and CRPlan.

Summer 2024 Term**3192 Homes and Houses: Where We Live****U 3**

Introduction to architecture as an artistic practice through exploration of the way we design, build, and occupy houses. Historical survey of both everyday and refined dwellings, focusing on twentieth century North American architects and houses will challenge accepted norms of home design and how those have evolved. The impact of "high" design on the everyday will be a theme.

GE VPA course.

Summer 2024 Term**3195 Modern Rome****U 3**

Rome's historic and current architecture and its urban evolution will reveal timeless and timely influences during the modern period. Design-based historic scholarship will draw on visual literacy and creative inquiry to understand, appreciate and assess one of the most intriguing, beautiful, important and enduring cities in Western civilization.

GE cultures and ideas course, and diversity global studies course.

Summer 2024 Term**3420.02 Architectural Design IV****U 3**

Architectural design with an emphasis on materiality. Continuation of 3410. Part two of two with 3420.01.

Prereq: 3410 (341 and 342). Not open to students with credit for 343.

Summer 2024 Term**4596 Design Agency on Wicked Problems: World Building Your Life****U 3**

In an era of rapid change locally and globally, technologically and socially, we are increasingly confronted by complex emergent systems problems, or Wicked Problems. This course will provide a theoretical framework for understanding and working on wicked problems, and uses design methodologies coming from architectural design to work on the wicked problem of designing your life.

Prereq: Not open to students with credit for 4596E. GE cultures and ideas and cross-disciplinary seminar course.

Biomedical Engineering**BIOMEDE****Summer 2024 Term****5170 Fundamentals of Medical Imaging****U G 3**

Fundamentals of mathematical and physical principles and signals and systems concepts involved in medical imaging modalities of x-ray, computed tomography, magnetic resonance and ultrasound.

Prereq: Math 2177, or Grad standing, or permission of instructor.

Summer 2024 Term

5210 Advanced Biological Transport

U G 3

Theoretical and phenomenological derivation and applications of transport (momentum, mass and energy) concepts important for biological systems and motivated by biomedical problems.

Prereq: 4210 or equiv, and Sr standing; or Grad standing; or permission of instructor. Not open to students with credit for 621 or 721.

Summer 2024 Term

5353 Hard-Tissue Biomaterials

U G 3

In-depth literature review of selected current concepts in the material science of hard tissues and related implant materials.

Prereq: 5310, or permission of instructor. Not open to students with credit for 733.

Summer 2024 Term

5359 Extracellular Matrix in BME

U G 3

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

Prereq: 4310 and Chem 2310; or Grad standing; or permission of instructor. Not open to students with credit for 632 or 739.

Summer 2024 Term

5430 Finite Element Applications in BME

U G 3

The finite element method for solution of differential equations for modeling biomedical engineering applications (implemented using COMSOL Multiphysics software).

Prereq: Math 2177 or equiv, and Anatomy 2220 or equiv, and Sr or Grad standing; or permission of instructor. Not open to students with credit for 643.

Summer 2024 Term

5520 Cell Engineering

U G 3

Cell-related phenomena important to tissue engineering and medicine: Cell-surface and cell-cell interactions; chemical/mechanical effects on cell function; cell engineering applications for treatment of human diseases.

Prereq: 4510 or equiv, and Sr standing; or Grad standing; or permission of instructor. Not open to students with credit for 652.

Summer 2024 Term

5661 Biomedical Nanotechnology I

U G 3

Survey of biomedical micro and nanotechnology with particular emphasis on design and construction strategies for therapeutic nanodevices incorporating biological components.

Prereq: 4610 or equiv, and Sr standing; or Grad standing; or permission of instructor. Not open to students with credit for 761. Cross-listed in CBE 5769.

Summer 2024 Term

5667 BioMEMS Microfabrication

U G 3

A detailed overview of microfabrication technologies, including silicon microfabrication, polymer microfabrication, and advanced microfabrication topics, with application to specific MEMS and BioMEMS devices.

Prereq: Sr or Grad standing in Engineering, or permission of instructor.

Summer 2024 Term

5669 Principles and Design Theory for Advanced Medical Devices

U G 3

Discusses working principles and design theory for medical devices: systems engineering techniques for analyzing medical devices across scale; system integration and quantitative analysis of biotic/abiotic interfaces; methods to probe biological systems; conceptual and detailed design optimization; miniaturization of medical devices, and object-oriented system integration.

Prereq: 5639, or permission of instructor.

Summer 2024 Term**5250 Wrangling NGS Data****U G 3**

Intended for chemists, mathematicians, information scientists and engineers with an interest in working with and understanding next generation sequencing data; students will utilize these data to identify systemic failures important to health and disease.

Prereq: Introductory calculus.

Summer 2024 Term**5700 Introduction to Personalized Therapeutics and Pharmacogenomics****U G 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. Introductory biology course recommended.

Summer 2024 Term**5733 Human Genetics****U G M 2**

The principles of human genetics covering mapping of disease genes, defects causing human disease, the cloning of disease genes, gene therapy, transgenes, and specific pathological disorders. Open to seniors who have completed the prerequisites.

Prereq: MolGen 4500 (500) or 4606 (606), or equiv. Not open to students with credit for 733, MolGen 5733 (733), or Pathol 5733 (733). Cross-listed in MolGen and Pathol.

Summer 2024 Term**7050 Neurobiology of Disease****G 3**

Neurobiology of Disease will explore the basis of major diseases affecting the nervous system.

Prereq: Permission of instructor. Not open to students with credit for BioPhrm 705. Cross-listed in NeuroSc 7050 (705).

Summer 2024 Term**7250 Pharmacogenomics****G 2**

Introduction to the role of genetics/genomics in drug discovery, development, and clinical applications. Capacity 20 students.

Prereq: 701, 702, and 703, or permission of instructor.

Summer 2024 Term**7550 Research Applications of Clinical Pharmacology****G 3**

Application of basic and advanced concepts in pharmacology to contemporary research literature to solidify understanding of the pharmacologic principles underlying the individualization of drug therapy and contemporary drug development. Fundamentals of clinical pharmacology for the development, evaluation, and clinical use of pharmaceutical products.

Prereq: 5600, HthRhSc 5510, Phr 5010, or other general pharmacology course; or permission of instructor. Cross-listed in Phr.

Summer 2024 Term**7599 Capstone in Applied Clinical and Preclinical Research****G 1 - 12**

Capstone project or practicum for students in the master's program in Applied Clinical and Preclinical Research. Culminating learning activity integrating core and specialization coursework. Capstone project or practicum performed at an organization involved with clinical or preclinical research with the oversight of a faculty advisor and site mentor.

Prereq: Enrollment in the master's program in Applied Clinical and Preclinical Research, or permission of the program director. Repeatable to a maximum of 12 cr hrs or 6 completions. This course is graded S/U. Cross-listed in Nursing and Phr.

Summer 2024 Term**7699 Clinical Pharmacology Practicum****G 1 - 8**

Placement in an organization conducting clinical research drug studies for supervised practice experience.

Prereq: Enrollment in MS Pharmacology program, or permission of the program director. Repeatable to a maximum of 12 cr hrs or 6 completions. This course is graded S/U.

Summer 2024 Term**8250 Design of Clinical Trials I****G 7**

Students learn pertinent aspects of the Code of Federal Regulations related to the conduct of clinical trials. They learn the basics of conducting clinical research and they gain hands-on experience in a 39-bed clinical research facility.

Prereq: Enrollment in Clinical Pharmacology MS program.

Summer 2024 Term**8260 Design of Clinical Trials II****G 7**

Students learn pertinent aspects of the Code of Federal Regulations related to the conduct of clinical trials. They learn the basics of conducting clinical research and they gain hands-on experience in a 39-bed clinical research facility.

Prereq: Enrollment in Clinical Pharmacology Master's program.

Biomedical Informatics**BMI****Summer 2024 Term****7830 Systems Biology****G 3**

Critical analysis of experiments in systems biology.

Prereq: 730 or IBGP 705, or permission of instructor. Not open to students with credit for 830.

Biomedical Sciences Graduate Program**BSGP****Summer 2024 Term****7080 Fundamentals of Grant Writing II****G 2**

Introduce students to principles of grant writing. Students will also write their own grants in the style of NIH submissions. Students will also learn about the grant review process.

Prereq: 7070, and enrollment in IBGP, or permission of program director. This course is progress graded (S/U).

Summer 2024 Term**7602 Independent Studies in Human Histology****G 2**

Students will independently follow provided study guides to gain an understanding of the human histology essential for understanding the mechanism of human diseases.

Prereq: Enrollment in IBGP, or permission of program director. Not open to students with credit for 762.02.

Summer 2024 Term**7639 Independent Studies in Gastrointestinal Pathobiology****G 2**

Students will independently follow study guides to gain an understanding of human gastrointestinal pathobiology.

Prereq: 762.08 and 763.01; or 7631, and enrollment in IBGP, or permission of program director. Not open to students with credit for 763.09.

Summer 2024 Term**7710 Clinical Experience in Cardiology-Coronary Care General Cardiology****G 2**

Provides graduate students a clinical experience on hospital wards and in the ambulatory environment in a clinical area related to cardiology-coronary care thus enhance their ability to perform translational research.

Prereq: Enrollment in IBGP, or permission of program director. Not open to students with credit for 765.10.

Summer 2024 Term**7721 Clinical Experience in Gastroenterology Outpatient****G 2**

Provides graduate students a clinical experience on hospital wards and in the ambulatory environment in a clinical area related to gastroenterology and thus enhance their ability to perform translational research.

Prereq: Enrollment in IBGP, or permission of program director. Not open to students with credit for 765.21.

Summer 2024 Term**7730 Clinical Experience in Infectious Diseases****G 2**

Provides graduate students a clinical experience on hospital wards and in the ambulatory environment in a clinical area related to infectious diseases and thus enhance their ability to perform translational research. Prereq: Enrollment in IBGP, or permission of program director. Not open to students with credit for 765.30.

Summer 2024 Term**7734 Clinical Experience in Neurology****G 2**

Provides graduate students a clinical experience on hospital wards and in the ambulatory environment in a clinical area related to neurology and thus enhance their ability to perform translational research. Prereq: Enrollment in IBGP, or permission of program director. Not open to students with credit for 765.34.

Summer 2024 Term**7739 Clinical Experience in Oncology****G 2**

Clinical experience in hospital wards and in the ambulatory environment in a clinical area related to oncology and enhancement of the ability to perform translational research. Prereq: Enrollment in IBGP, or permission of program director. Not open to students with credit for 765.39.

Summer 2024 Term**7761 Clinical Experience in Pulmonary****G 2**

Clinical experience in hospital wards and in the ambulatory environment in a clinical area related to pulmonary and enhancement of the ability to perform translational research. Prereq: Enrollment in IBGP, and permission of program directors. Not open to students with credit for 765.61.

Summer 2024 Term**7830 Phytochemicals in Human Health: Crops to the Clinic****G 3**

Covers the function and control of phytochemicals in plants, the function of phytochemicals in human health, delivery of phytochemicals through foods in the diet, strategies when designing studies examining foods for health, and policy and sustainability considerations. Prereq: Biochem 4511 (511) or 5613 (613), or equiv; or permission of instructor. Not open to students with credit for FdScTe 7810. Cross-listed in HCS, HumnNtr, FdScTe, and PubHEpi.

Summer 2024 Term**7890 Immunological Research of Pediatric Diseases****G 1**

Trainees will prepare and give presentations on current research on immunological mechanisms of pediatric diseases. Prereq: Enrollment in IBGP, and permission of instructor. Repeatable to a maximum of 2 cr hrs. This course is graded S/U.

Summer 2024 Term**7980 Seminar in Pediatric Research****G 1**

Faculty and outside speakers will give presentations on research in biological mechanisms of pediatric disease. Prereq: Enrollment in IBGP, or permission of instructor. Repeatable to a maximum of 8 cr hrs. This course is graded S/U.

Summer 2024 Term**8510 Advanced Seminar in Integrated Biomedical Science****G 1**

Interdisciplinary biomedical topics will be reviewed in depth with student participation in analyzing literature, and faculty and outside experts presenting their own original research. Prereq: Enrollment in IBGP, or permission of instructor. This course is graded S/U.

Summer 2024 Term**8800.05 Genomic Medicine****G 3**

Translational Science to understand current genomic medicine, pharmacogenomics literature, and design of genomics research projects, with emphasis on clinical applications. Prereq: Enrollment in MD or DO degree program, or permission of instructor.

Summer 2024 Term**4214 Corporate Finance IV****U** 1½

A capstone course that allows students to apply their skills and knowledge developed in earlier courses to action-based corporate finance case studies.

Prereq or concur: 4213 and BusMHR 2291 (BusAdm 499.01). Not open to students with credit for 721.

Summer 2024 Term**4262 Managing Financial Institutions****U** 1½

Skills development on the measurement and management of credit risk, interest-rate risk of financial institutions, and the role of securitization.

Prereq: 4260 and BusMHR 2292 (BusAdm 499.01). Not open to students with credit for 726.

Summer 2024 Term**4280 Treasury Management****U** 3

Provide in depth coverage of the principles and tools of treasury and cash management.

Prereq: 4201, 4212 (721), 4222 (722), 4230 (723), 4250, 4260 (726), and BusMHR 2291 or 2292 (BusAdm 499.01). Not open to students with credit for 727.

Summer 2024 Term**6227 Professional Development for SMF students****G** 1½

This course is designed to supplement and enhance the SMF experience. The SMF program develops technical skills in finance, but class participation and team assignments are also essential to success. Class participation is often a significant part of course grades and team are assigned to prepare case briefs.

Prereq: Enrollment in SMB-Finance program. This course is graded S/U.

Summer 2024 Term**3221 Innovation and Leadership****U** 3

This course is built on intellectual and experiential engagement with innovative leadership. Students are challenged to develop better problem-solving skills in a team-oriented atmosphere, and through the use of creativity, learn to view challenges from new and different perspectives.

Cross-listed in ESHESA.

Summer 2024 Term**3511 Value Creation in the Social Enterprise****U** 3

Value creation in social enterprise helps non-profits with various resources needed to aid in their growth and contribute to their sustainability. The course tracks its history, the foundations spearheading the movement, and development of the earned income model. It also covers the legal structures and financing tools in place for non-profits created with a mission to be better served.

Prereq: English 1110.01 or equiv.

Summer 2024 Term**3543 Franchising****U** 3

Planning, building, and leading franchise organizations and franchising as a growth strategy.

Prereq: BusMHR 2500 (290).

Summer 2024 Term**4520E Leading High Performance Ventures****U** 3

Focuses on concepts, frameworks, skills, and tools that enable a start-up to become a sustainable enterprise that creates jobs. Option available for honors students to do extra work for Honors credit.

Prereq: Not open to students with credit for 3520 or 590.

Summer 2024 Term**4550 Capstone in Entrepreneurship: Starting the Business****U 3**

Students will start a business, including all aspects involved in a start-up. Second half of the course is a one-semester independent based on their start-up experience. This immersion course is required to earn an Entrepreneurship Distinction and Fellowship designation.

Business Admin: Marketing & Logistics**BUSML****Summer 2024 Term****6250 Marketing Management****G 3**

Focuses on the interrelated elements of the marketing mix, its relationship with the other functional areas of management, and marketing responses to the external environment.

Prereq: Enrollment in SMB-Marketing program. Not open to students with credit for 751.

Chemical and Biomolecular Engineering**CBE****Summer 2024 Term****5761 Chemical and Biomolecular Engineering Processes****U G 3**

Integration of fundamentals of chemistry, chemical engineering operations, thermodynamics, reaction kinetics and economics for optimum design and operation of chemical process plants.

Prereq: Sr or Grad standing in CBE or Chem. Not open to students with credit for 761.

Summer 2024 Term**8189 Teaching Mentorship in Chemical and Biomolecular Engineering****G 3**

Expose students who are interested in academic careers to the classroom environment, while having minimal impact upon the overall course.

Prereq: FABEng 7220 or 810; and at least 1 IA or TA experience.

Summer 2024 Term**8799 Teaching Practicum in Chemical and Biomolecular Engineering****G 1 - 6**

Teaching and instructional development under faculty guidance in the chemical and biomolecular engineering curriculum.

Prereq: Grad standing. International students for whom English is not the first language must first become certified in English, either through the SPEAK or Mock Teaching Test. Repeatable to a maximum of 20 cr hrs or 20 completions. This course is graded S/U.

Summer 2024 Term**8809 Advanced Thermodynamics II****G 3**

Continuation of CBE 8808 and special topics of thermodynamics that are of interest to chemical and biomolecular engineering.

Prereq: 8808 (808), and Grad standing; or permission of instructor. Not open to students with credit for 809. Repeatable to a maximum of 6 cr hrs.

Cancer Biology and Genetics**CBG****Summer 2024 Term****5000 Evolution of Emerging Viruses****U G 2**

Emphasis on the biochemical, molecular, cellular, clinical, epidemiological and etiological aspects of emerging and re-emerging human viruses and unconventional agents and their associated diseases. 2 years in the Biological Sciences is recommended.

Prereq: Biology 1101 and Chem 1110, or equiv. Not open to students with credit for 600.

Summer 2024 Term

5696 Sexuality, Health and Sexually-Transmitted Pathogens

U G 2

Examination of aspects pertaining to sexual health and the pathogenic agents transmitted by sexual contact that pose a risk to sexual well being. Basic chemistry, biology, and a general microbiology course are recommended, but not required.

Summer 2024 Term

6930 Individual Studies

G 3

Individual minor investigation in the field of virology, immunology, microbial pathogenesis or cancer genetics. Repeatable to a maximum of 15 cr hrs. This course is graded S/U.

Summer 2024 Term

7470 Fundamentals of Muscle Biology

G 1 - 2

Team-taught course focusing on the didactic approach to understanding skeletal muscle from the basic structure-function relationship to the molecular mechanisms that underlie muscle diseases and strategies on how to model and treat these pathologies.

Prereq: Not open to students with credit for 747.

Summer 2024 Term

8040 Mass Spectrometry and Proteomics

G 3

An overview of mass spectrometry based proteomics in the biological sciences. Will cover topics related to qualitative and quantitative mass spectrometry.

Summer 2024 Term

8142 Current Topics Immunology

G 1

Journal club format course discussing immunology from a historical perspective, identifying critical discoveries that provide an understanding of how the immune system functions and how these findings influence our research methods and concepts today.

This course is graded S/U.

Summer 2024 Term

8310 Current Topics in Human Cancer and Human Genetics

G 2

Covers the current literature in the topics of cancer and other human genetic diseases and develop presentation skills relating to topics summarized from the literature.

Prereq: Course work at Grad level equivalent to 1st year Medicine. This course is progress graded (S/U).

Summer 2024 Term

8845 The History of Immunology

G 3

Understand immunology and pertinent research, students must understand its history so to appreciate where the field of immunology started, the progress and discoveries made. 7010 is recommended but not required.

This course is graded S/U.

Consumer Sciences

CONSCI

Summer 2024 Term

2990 Professional Development

U 1

The professional: Overview of the internship and job search process, networking, involvement in professional organizations and continued development.

Prereq: Soph standing or above, and enrollment in a ConSci major (CSCFFS, CSFRSt, CSHspMg). Not open to students with credit for 595. This course is graded S/U.

Summer 2024 Term

6020 Theories and Models in Consumer Sciences

G 3

Survey of theories and models that serve as the foundation for research in Consumer Sciences; including theories from economics, psychology, and sociology.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 702.

Summer 2024 Term

7230 Measurement and Analysis of the Economic Status of Consumer Units

G 3

Measurement and analysis of the economic status of consumer units including key concepts, determinants, policy implications, and implications for research.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 739.

Summer 2024 Term

8280 Advanced Quantitative Methods in Consumer Sciences

G 3

Quantitative research methods applied to answering current research questions in consumer sciences. Emphasis is on advanced topics relevant to the analysis of secondary data.

Prereq: Basic course in regression, and permission of instructor. Not open to students with credit for CSCFmFnS 881.

City and Regional Planning

CRPLAN

Summer 2024 Term

4200 Arts and Entertainment Planning

U 3

Planning for arts and entertainment districts, from the neighborhood art studio to entire cities as entertainment destinations.

Summer 2024 Term

5670 Creative Place Marketing

U G 1

This course introduces the idea of creative placemaking and creative place marketing, explores issues in place marketing and introduces students to key considerations for developing place marketing plans, cultural tourism strategies, and other initiatives that improve the quality and economics of place through arts and culture. Emotional aspects of place and social justice issues are also covered.

This course is graded S/U.

Summer 2024 Term

6010 Innovation in City and Regional Planning

G 3

Successful cities are innovative and forward-thinking. Challenges students to focus on generation of truly innovative ideas to improve cities and regions.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 742.

Computer Science and Engineering

CSE

Summer 2024 Term

1112 Introduction to Computer-Assisted Problem Solving for Construction Systems Management

U 3

Using productivity software, especially spreadsheets and databases, to solve problems for construction management; relative/absolute cell referencing, logic, functions; relational databases, querying, project integration.

Prereq: Not open to students with credit for 1111 (101), 1113, 105, or 200.

Consumer Sciences: Fashion and Retail Studies

CSFRST

Summer 2024 Term**7575 Psycho-social and Cultural Aspects of Dress****G 3**

In-depth study of research and social science theories as applied to appearance and dress as manifestations of individual and group consumer behavior.

Prereq: ConSci 6000 (700), or Grad standing, or permission of instructor.

Consumer Sciences: Hospitality Management**CSHSPMG****Summer 2024 Term****5710 Foodservice Facilities Design****U G 3**

The examination of the organization of the foodservice system, the selection of equipment, layout of the foodservice establishment, and the management of the facility.

Prereq: 2700 and 3700.

Summer 2024 Term**7630 Advanced Food Service Systems Management: Operational Integration****G 3**

Examines current technology and trends in food service operations with an emphasis on the functional subsystems of procurement, production, distribution and service, and sanitation and maintenance.

Prereq: Grad standing. Not open to students with credit for 730.

Summer 2024 Term**8610 Human Resource Management in the Hospitality and Retail Industries****G 3**

Provides an overview of research on human resource management focused on the hospitality and retail industries. Emphasis is placed on organizational structure, employee behavior, performance, employee turnover, and retention.

Prereq: Grad standing, or permission of instructor.

Dentistry**DENT****Summer 2024 Term****6516 Oral Microbiology and Cariology****D 1½**

Epidemiology of dental caries and periodontitis. Oral microbiology of the disease process and relationship to systemic disease. Topics also include: Oral infections, sterilization and asepsis, and caries assessment, diagnosis, and fluoride therapy.

Summer 2024 Term**6546.01 Operative Dentistry V lecture****D 1**

Principals of composite and amalgam preparation and restoration, bases and liners, and complex amalgam preparations and restorations, foundation restorations, fabricating veneer temporaries, uses of lasers in restorative dentistry including troughing for impressions, and other advanced restorative procedures. This course is taken concurrently with the laboratory course.

Repeatable to a maximum of 3 cr hrs.

Summer 2024 Term**7522 Clinical Geriatrics****D 1**

Delivery of clinical dental care to elderly populations at nursing homes and geriatric clinics.

Prereq: Not open to students with credit for 522.

Summer 2024 Term**8003 Research I****G 2**

Statistics and research design. Introduction to research ethics, human subject and animal research.

Summer 2024 Term**8004 Research II****G** 1½

Advanced topics related to research ethics, intellectual property, human subjects and animal research.

Summer 2024 Term**8420 Fixed Prosthodontics Tooth Preparations****G** 2

Ideal tooth preparation methodology and guidelines to support fixed prosthesis. Reinforcement for anterior tooth contours which lend themselves to optimum esthetic results as well as periodontal health. Includes laboratory component.

Summer 2024 Term**8458 Special Topics in Multidisciplinary Care****G** 1

Overview of the interrelationships between various dental specialties. Topics include endodontics, anesthesia, pediatric dentistry, sleep apnea, orthodontics, facial growth and development, oral surgery and preprosthetic surgery.

This course is graded S/U.

Summer 2024 Term**8460 Maxillofacial Prosthodontics Introduction****G** 1

Introduction to maxillofacial prosthodontics including types of defects, prostheses and their principles of design and issues related to oncologic therapy.

Electrical and Computer Engineering**ECE****Spring 2025 Semester****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.

Spring 2025 Semester**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.

Spring 2025 Semester**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.

Spring 2025 Semester**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.

Spring 2025 Semester

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.

Spring 2025 Semester

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.

Spring 2025 Semester

7855 Large Scale and Cyber-Physical Systems

G 3

Decentralization, hierarchy and their effects on modeling, stability analysis, and optimal controller design. Hybrid system based modeling and design of Cyber-Physical Systems.

Prereq: 5750 (750). Not open to students with credit for 855.

Spring 2025 Semester

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.

Educational Studies

EDUCST

Summer 2024 Term

5880.03 Interprofessional Education: Seminar on Ethical issues Common to the Helping Professions

U G 2

Ethical issues common to the professions (e.g., rapidly advancing technology, death/dying, privacy/confidentiality, professional boundaries). Case based. Limited to students enrolled in Health and Rehabilitation Science, Education, Nursing, and the College of Medicine.

Prereq: Jr standing or above. Repeatable to a maximum of 4 cr hrs. Cross-listed in HthRhSc and Nursing and MedColl 6880.03.

Summer 2024 Term

5880.04S Interprofessional Education: Collaboration in Urban Communities

U G 3

Students, faculty, community residents and professionals offer research-based solutions to community identified challenges. Focus on community asset mapping, best professional and interprofessional practices, and teamwork.

Prereq: Jr standing or above. Repeatable to a maximum of 6 cr hrs. Cross-listed in HthRhSc and Nursing.

Summer 2024 Term

5892 Colloquia, Workshops and Special Topics: Educational Studies

U G 1 - 8

Intensive study of a problem common to the participants for the purpose of developing sound principles and practices relating to it.

Prereq: Permission of instructor. Repeatable to a maximum of 9 cr hrs or 9 completions. This course is graded S/U.

Summer 2024 Term

7189 Planned Field Experience: Foreign

G 1 - 15

Planned professional teaching experience under supervision in a public school or other educational agency.

Prereq: Permission of instructor. Repeatable to a maximum of 24 cr hrs or 24 completions. This course is graded S/U.

Summer 2024 Term**7718 Interdisciplinary Perspectives on Autism Spectrum Disorders****G 3**

Teaches the analytical skills necessary to comprehend and formulate an interdisciplinary framework relating to major scientific and theoretical perspectives in autism spectrum disorders.
 Prereq: Permission of instructor. Not open to students with credit for EduPAES 717.01 and 717.02. Cross-listed in HthRhSc, SocWork, Nursing, Psych, and SphHrng.

Summer 2024 Term**7897 Special Topics: Educational Studies****G 1 - 5**

Special topics for professional educators and graduate students in selected areas; designed to provide the opportunity to update professional skills and review current research developments.
 Prereq: Grad standing, or registration in one of the professional schools. Repeatable to a maximum of 18 cr hrs or 18 completions. This course is graded S/U.

Summer 2024 Term**8082 Capstone Seminar: Applied Developmental Science in Education****G 3**

A capstone professional seminar for doctoral students enrolled in the Interdisciplinary PhD Specialization in Applied Developmental Science in Education (ADS-E).
 Prereq: 8081 or EduTL 8081. Cross-listed in EduTL and HDFS.

Engineering**ENGR****Summer 2024 Term****1100.01 Introduction to Ohio State and Mechanical and Aerospace 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 College of Engineering. Not open to students with credit for FAES 1100, ArtsSci 1100, HumanEc 1100, or Exp 1100.

Summer 2024 Term**1100.05 Introduction to Ohio State and Civil and Environmental 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**1100.10 Introduction to Ohio State and Food, Agricultural, and Biological 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**1100.11 Introduction to Ohio State and Industrial and Systems 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**1100.12 Introduction to Ohio State and Materials Science and Welding 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 ArtsCol 1100, ArtsSci 1100, Exp 1100, FAES 1100, or HumanEc 1100.

Summer 2024 Term**1100.13 Introduction to Ohio State and Mechanical 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**1110.04 Introduction to Ohio State and Chemical and Biomolecular Engineering I****U 1/2**

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 Engineering. Not open to students with credit for Engr 1100 (Engineer 100), FABEng 1100 (100), ENR 1100 (100), or USAS 1100 (100).

Summer 2024 Term**1120.04 Introduction to Ohio State and Chemical and Biomolecular Engineering II****U 1/2**

Assessment of major / academic interests, advanced study skills, campus activities, program enrichment opportunities, engineering services, internships, and development of a personalized four-year curricular plan in an engineering major.

Prereq or concur: Engr 1110.XX. Not open to students with Engr 1100 (Engineer 100), FABEng 1100 (100), ENR 1100 (100), and USAS 1100 (100).

Summer 2024 Term**1120.10 Introduction to Ohio State and Food, Agricultural, and Biological Engineering II****U 1/2**

Assessment of major/academic interests, advanced study skills, campus activities, program enrichment opportunities, engineering services, internships, and development of a personalized four-year curricular plan in FABE.

Prereq or concur: 1110.xx. Not open to students with credit for Engr 1100 (Engineer 100), FAES 1100 (100), ENR 1100 (NatRes 100), EXP 1100 (USAS 100).

Educational Studies: Cultural Foundations of Educ**ESCFE****Summer 2024 Term****7214 An Interpretive History of African American Education:1700 to 1950****G 3**

Examination of the education of African Americans from the perspective of African American scholars from 1700 to 1950.

Prereq: Not open to students with credit for EduPL 863.

Educational Studies: Educational Psychology**ESEPSY****Summer 2024 Term****5892 Workshops: Educational Psychology****U G 1 - 8**

Intensive study of a problem common to the participants for the purpose of developing sound principles and practices relating to it.

Prereq: Permission of instructor. Repeatable to a maximum of 9 cr hrs or 9 completions. This course is graded S/U.

Educational Studies: Philo & Hist of Education

ESPHE

Summer 2024 Term**7413 Professional Education: Theories and History****G 3**

A study of the history, development, organization, and theories of education for the various professions, with particular attention to experience in the United States.

Prereq: Not open to students with credit for EduPL 915.

Educational Studies: Quant Rsrch, Evaltn & Msrmnt

ESQREM

Summer 2024 Term**7667 Authentic Assessment****G 3**

Study of authentic assessment techniques including performance-based assessment, and portfolio assessment. Emphasis is on principles, procedures, issues, and innovations in authentic assessment.

Prereq: One or more grad level course in assessment or measurement. Not open to students with credit for EduPL 878.

Educational Studies: Qualitative Research in Educ

ESQUAL

Summer 2024 Term**8210 Qualitative Research: The Analysis of Interaction in Educational Settings****G 3**

Qualitative research and the analysis of interaction examines the history, conceptualizations and practices of educational ethnography, field work, and naturalistic inquiry.

Prereq: Not open to students with credit for EduPL 817.01.

Summer 2024 Term**8211 Analysis of Classroom Discourse****G 3**

An introduction to the sequential analysis of classroom discourse structures. This course addresses the face-to-face organizations of classroom order, interaction and instruction.

Prereq: 8210 or EduPL 8210, or permission of instructor. Not open to students with credit for EduPL 817.02 or 817.03.

Educational Studies: Special Education

ESSPED

Summer 2024 Term**8922 Topics in Early Childhood Special Education****G 3**

Review of evidence based practices in and methodological issues in early childhood special education.

Prereq: 5742 and 8871, or EduPAES 5742 (742) and 8871 (861); Grad standing, admission to the special education program, or by permission of instructor. Not open to students who have taken EduPAES 925.23.

Educational Studies: Workforce Development & Educ

ESWDE

Summer 2024 Term**5633 Instructional Strategies for Career Based Intervention Programs****U G 3**

Preparation and delivery of lessons, placement and follow-up of students in Career-Based Intervention programs.

Prereq: Enrollment in EHE or Grad standing; or permission of instructor. Not open to students with credit for EduPAES 633.

Summer 2024 Term**5636 School Health Teaching Practices****U G 3**

Principles and practices for preparing, implementing, and evaluating health instruction.

Prereq: Not open to students with credit for EduPAES 636 or 636D.

Summer 2024 Term**5680 Introduction to Career Based Intervention****U G 2**

The initial course for adding the Career Based Intervention Endorsement to an existing teaching license.

Prereq: Grad standing, or enrollment in EHE major, or permission of instructor. Not open to students with credit for EduPAES 678.

Summer 2024 Term**6701 Boot Camp for the Beginning Online Instructor****G 1**

This course workshop provides the just in time skills needed to begin teaching online and prepares future faculty for first time online teaching assignments. Learners will be able to develop a management plan for teaching online, develop spaces and places for learning, connect with students and design assessments appropriate for online learning environments. This is a self-paced and managed course.

Prereq: Not open to students with credit for 5701.

Food, Agricultural, and Biological Engineering**FABENG****Summer 2024 Term****5320 Agroecosystems****U G 3**

Holistic analysis of agricultural systems. Application of energy analysis to evaluate and design sustainable agroecosystems.

Prereq: Sr or Grad standing, or permission of instructor. Not open to students with credit for 732.

Summer 2024 Term**5810 Design of Timber and Wood-Framed Building Systems****U G 3**

Behavior and material properties of wood construction in structures. Design methodology of timber structural elements and connections. Analysis methods and design process of post-frame and stick-framed building structures for commercial, agricultural, or residential use. Continuous lateral load path and the design of wood diaphragms, shear walls, and anchorage to foundation.

Prereq: 3810 or CivilEn 3130; or Grad standing in FABEng or CivilEn; or permission of instructor.

Human Development And Family Science**HDFS****Summer 2024 Term****3620 Intervention and Prevention Practices: Development and Evaluation****U 3**

Students will identify practices that have empirical support and focus on development, integration, and evaluation of intervention and prevention practices applied to teaching important skills that improve functional outcomes in everyday contexts.

Prereq: Soph, Jr, or Sr standing, or permission of instructor.

Summer 2024 Term**5410 Infant-Toddler Development: Current Research and Controversies****U G 3**

Infant and toddler development during the first four years of life with special consideration of bases of support for provision of effective care.

Prereq: 2410 or equiv, and Jr or Sr standing.

Summer 2024 Term**8403 Individuation****G 3**

Designed as an advanced adolescent development course. The major focus is on the individuation process discussed from several perspectives.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 840.03.

Summer 2024 Term**8825 Theories of Human Development****G 3**

Examination of foundational theories of human development with an emphasis on evaluating, comparing and contrasting the major theories.

Prereq: Doct standing, or permission of instructor. Not open to students with credit for 825.

Summer 2024 Term**8870 Family Systems Assessment****G 3**

A survey of issues and techniques used in assessment of families for purposes of research and practice, including issues and design for family therapy research.

Prereq: Grad standing, or permission of instructor. Not open to students with credit for 870.

Health Information Management And Systems**HIMS****Summer 2024 Term****5620E Healthcare Reimbursement Systems****U G 3**

In depth analysis of U.S. healthcare payment systems and methodologies including public funded programs, managed care contracting, utilization review and impact on providers, payers, consumers, policy and information systems.

Prereq: Honors standing, and 3520; or Grad standing in HRS; or permission of instructor.

Health and Rehabilitation Sciences**HTHRHSC****Summer 2024 Term****2300 Service Learning in Vulnerable Communities****U 3**

This service-learning course examines vulnerable populations from multiple perspectives including ethnicity, socioeconomic status, mental and physical disability, chronic disease, culture, and the impact on both individual and community health.

Prereq: Not open to students enrolled in the Bachelor of Science in Health Sciences.

Summer 2024 Term**5880.01 Interprofessional Education Seminar on Interprofessional Care****U G 2**

Develop and practice skills necessary for interprofessional collaboration in solving complex human problems. Case based. Limited to students enrolled in Health and Rehabilitation Sciences, Edu, Law, Med, Nursing, Social Work and Theology.

Repeatable to a maximum of 4 cr hrs. Cross-listed in EduPAES 5880.01, MedColl 6880.01, and Nursing 5880.01.

Summer 2024 Term**5880.03 Interprofessional Education Seminar on Ethical Issues Common to Helping Professions****U G 2**

Ethical issues common to the professions, e.g., advancing technology, death and dying, privacy and confidentiality, professional boundaries. Cased based.

Prereq: Enrollment in Health and Rehabilitation Science, Education, Nursing, or Medicine. Repeatable to a maximum of 4 cr hrs. Cross-listed in EduPAES 5880.03, Nursing 5880.03, and MedColl 6880.03.

Summer 2024 Term**7010 Health Literacy****G 2**

Examine and analyze issues of low health literacy, including populations at risk, measurement tools, writing in plain language; health communication techniques; and organizational approaches.

Prereq: Not open to students with Grad standing in Health Sciences or with specializations in Literacy or Geriatrics. Cross-listed in Nursing 6110, Phr 7090, ArtsSci 6110, and MedColl 7710.

Summer 2024 Term**7200 Teaching in the Health Sciences****G 2**

Principles and practices of teaching in the allied health professions; focuses on the application of teaching theory and systematic course construction within the context of allied health teaching and training.

Prereq: Grad standing in Health and Rehabilitation Science. Not open to students with credit for AlliiMed 753.

Internal Medicine**INTMED**

Summer 2024 Term**8891.01 Seminar Allergy/Immunology****G 1**

Discussion of pertinent literature and research projects in various subspecialty areas with emphasis on basic science concepts.
 Au Sem. Repeatable.

Summer 2024 Term**8891.07 Seminar: Hematology/Oncology****G 1 - 3**

Discussion of pertinent literature and research projects in various subspecialty areas with emphasis on basic science concepts.
 Prereq: Permission of instructor. Repeatable. This course is graded S/U.

Summer 2024 Term**8891.09 Seminar: Pulmonary Disease, Allergy, Critical Care and Sleep Medicine****G 1 - 4**

Discussion of pertinent literature and research projects in various subspecialty areas with emphasis on basic science concepts.
 Prereq: Permission of instructor. Repeatable. This course is graded S/U.

Summer 2024 Term**8891.10 Seminar: Renal Disease****G 1 - 3**

Discussion of pertinent literature and research projects in various subspecialty areas with emphasis on basic science concepts.
 Prereq: Permission of instructor. Repeatable. This course is graded S/U.

Kinesiology: Health and Exercise Science**KNHES****Summer 2024 Term****5491 Body Composition Evaluation****U G 1**

Practical experience in the assessment and interpretation of body composition for a variety of adult, youth and special populations.
 Prereq: Jr standing, and proof of CPR First/AID certification. Not open to students with credit for EduPAES 490.11.

Summer 2024 Term**5492 Muscular Strength and Anaerobic Power Testing****U G 1**

Includes practical experiences in the understanding and application of muscular strength and anaerobic power testing. Experience in explanation, motivation of clients and evaluation of the results with application will be included.
 Prereq: Jr standing, and proof of CPR First/AID certification. Not open to students with credit for EduPAES 490.12.

Summer 2024 Term**5493 Fitness Program Development and Evaluation: Older Adult Exercise Prescription****U G 1**

Includes practical experiences with facilitated understanding in the assessment, development, delivery and evaluation in the area of individualized fitness and wellness programs.
 Prereq: Jr standing, and proof of CPR First/AID certification. Not open to students with credit for EduPAES 490.13.

Summer 2024 Term**8802 Seminar in Advanced Cardiorespiratory and Training Principles in Exercise****G 3**

Refines and increases your understanding of the cardiorespiratory aspects of exercise physiology. This course will provide a conceptual framework for understanding function in the healthy state and diseased state.

Kinesiology: Physical Education**KNPE**

Summer 2024 Term

1208 Orientation to Sport and Leisure Studies

U 3

Vocational opportunities, vocational preparation, and significant issues and information associated with sports, recreation and leisure, fitness, and physical education.
Prereq: Not open to students with credit for EduPAES 208.

Summer 2024 Term

2620.01 Coaching Baseball

U 2

Study in the theory, strategy, and mechanics of coaching interscholastic; intercollegiate baseball. Advanced skill level in the elected sport is required to take this course.
Prereq: Jr standing, or permission of instructor. Not open to students with credit for EduPAES 620.01.

Summer 2024 Term

2620.02 Coaching: Basketball

U 2

Study in the theory, strategy, and mechanics of coaching interscholastic; intercollegiate basketball. Advanced skill level in the elected sport.
Prereq: Jr standing, and permission of instructor. Not open to students with credit for EduPAES 620.02.

Summer 2024 Term

4489.05 Advanced Field Experience: Interscholastic Coaching

U 2 - 6

Directed coaching experience.
Prereq or concur: 4643, and admission to Kinesiology major or Coaching Education minor; or permission of instructor. Repeatable to a maximum of 6 cr hrs or 6 completions.

Summer 2024 Term

7897 Special Topics: Physical Education, Sport & Physical Activity

G 3

This professionally focused course examines contemporary issues in curriculum and instruction in physical education. The course is designed to be flexible and the content changes to reflect the current changes in the field of physical education.
Repeatable to a maximum of 15 cr hrs.

Summer 2024 Term

8870 Research on Teaching

G 3

Examines the process, products, and ecological paradigms in educational research from their beginnings in the 1970s to the present day.
Prereq: Grad standing in Kinesiology, or permission of instructor. Not open to students with credit for EduPAES 870.

Summer 2024 Term

8892 Research Seminar in Physical Education Teacher Education

G 3

Research seminar designed to enhance students' knowledge on current experimental techniques, theories and models of physical education, sport and physical activity with an emphasis on preparing physical education teachers.
Prereq: Enrollment in the Ed.D. in Kinesiology or Physical Education Concentration, or permission of instructor.
Repeatable to a maximum of 18 cr hrs.

Kinesiology: Sport, Fitness, and Health Program

KNSFHP

Summer 2024 Term

1139.13 Introductory Program of Outdoor Pursuits: Orienteering

U 1

The sport of orienteering involving compass skills, map reading, and cross-country travel; cross-country racing in its competitive form. Travel, transportation and subsistence costs for activities will be borne by the student.
Compass required.
Prereq: Permission of instructor. Not open to students with credit for EduPAES 139.13. This course is graded S/U.

Summer 2024 Term**1143.02 Badminton II****U 1**

Continuation of 1143.01 with emphasis on advanced strategy in doubles and singles; intermediate skills.

Prereq: 1143.01 or EduPAES 1143.01, or equiv. Not open to students with credit for EduPAES 143.02.

Summer 2024 Term**1145.01 Bowling I****U 1**

The development of a life-time skill is the primary objective for this course. The skill of bowling, as well as score-keeping, basic courtesies and safety will be taught. Skill and knowledge will be stressed so that through participation of bowling activities there will be enjoyment and competition. This course utilizes an actual bowling alley for the teaching lab.

Prereq: Not open to students with credit for EduPAES 145.01.

Summer 2024 Term**1152.08 LaBlast Fitness Foundations****U 1**

Introduce students to LaBlast Fitness Foundations basic concepts which is a balance between dance and fitness, based on ballroom dance steps but partner-free. Beginning with basic rhythms for each dance and building on the basic steps, students will learn to combine steps into patterns and combinations for each style of dance. Principles, techniques, safe practice and posture will be covered.

Summer 2024 Term**1169.06 Martial Arts Forms: Shuai Chiao****U 1**

Introduction to the various forms and techniques of Shuai Chiao-Chinese wrestling, a combination of Karate and Judo.

Prereq: Not open to students with credit for EduPAES 169.10.

Summer 2024 Term**1169.09 Martial Arts Forms: T'ai Chi Ch'uan I****U 1**

An introduction to T'ai Chi Ch'uan with emphasis on an exploration of body/energy awareness.

Summer 2024 Term**1169.10 Martial Arts Forms: T'ai Chi Ch'uan II****U 1**

Intermediate forms and techniques of T'ai Chi Ch'uan and experience in joint hands operation as well as in combat T'ai Chi Ch'uan.

Prereq: 1169.09, or EduPAES 1169.09, or equiv. Repeatable to a maximum of 3 cr hrs.

Summer 2024 Term**1178.03 Swimming III****U 1**

Intermediate skills for those who can swim at least 100 yards using the front crawl and at least 2 other strokes. Student must provide bathing suit.

Repeatable to a maximum of 3 cr hrs.

Kinesiology: Sport Industry, Sport Management**KNSISM****Summer 2024 Term****6730 Financing Sport Operations****G 3**

Examines the application of basic concepts of public and private sector financing to collegiate and professional sport organizations.

Prereq: Grad standing. Not open to students with credit for EduPAES 733.

Summer 2024 Term**7852 Sport Philosophy and Ethics****G 3**

Examination philosophical and ethical issues in sports.

Prereq: Grad standing. Not open to students with credit for EduPAES 852 or 730.

Summer 2024 Term**8895 Seminars: Sport Management****G 3**

Writing and research on topics in Sport Humanities.

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

Law**LAW****Summer 2024 Term****6250 Contracts Drafting Skills****L 2**

The Contract Drafting Skills course is a problem-based, lawyering skills course. Students will be given opportunities to develop law practice skills relevant to drafting negotiated documents that include learning about a client's goals, researching the enforceability of contract clauses, and integrating the client's strategies into written contracts.

This course is graded S/U.

Summer 2024 Term**7128 Designing Deals****L 2**

Designing Deals examines how lawyers can help entities forge relationships that create value by merging advanced negotiation theory and simulations with analysis of real-world transactions.

Summer 2024 Term**7213 Drafting Business Contracts****L 2**

Provides students with a practical, hands-on introduction to the skills, techniques, and strategies that transactional business lawyers use when drafting business contracts.

Summer 2024 Term**8015 Herman Moot Court Competition****L 1 - 4**

The Herman competition is a voluntary intramural appellate advocacy competition for second year students in the J.D. program. The Herman competition determines invitation to participate in one of the college's traveling moot court teams.

Prereq: Not open to students with credit for 714L. Repeatable to a maximum of 4 cr hrs or 4 completions. This course is graded S/U.

Summer 2024 Term**8817 The Rule of Law in the Age of Legal Change****L 3**

This course will introduce students to "the rule of law" as part of a larger introduction to some of the major legal and policy changes being made by the Trump Administration.

Medicine, College of**MEDCOLL****Summer 2024 Term****6880.01 Interprofessional Education: Seminar on Interprofessional Care****M 2**

Develop and practice skills necessary for interprofessional collaboration in solving complex human problems. Case based. Limited to students enrolled in Allied Med, Edu, Law, Med, Nursing, Soc Work, Ed & Hum Eco & Theology.

Prereq: Enrollment in the College of Medicine Professional MD program. Repeatable to a maximum of 4 cr hrs.

Summer 2024 Term**6887 Inter-departmental seminar****M 1 - 3**

Inter-departmental focus on topics of Scientific Inquiry, Quality and Patient Safety, Patient Care and Evidenced Based Medicine.

Prereq: Enrollment in the College of Medicine Professional MD program. This course is progress graded (S/U).

Summer 2024 Term**7670 Patient Centered Research****M** 1½

Lectures and small group discussions will cover an introduction to humanistic aspects of medical research and human experimentation, including historical, socio-political, economic, and ethical aspects.

Prereq: Enrollment in College of Medicine. Repeatable to a maximum of 9 cr hrs. This course is progress graded (S/U). Cross-listed in IBGP.

Summer 2024 Term**7689 Interdisciplinary Approach to Patient Care****M** 1 - 3

Collaborate with students from other health care professions including pharmacy, physical therapy, medical dietetics, nursing, and medicine. The students will use a problem-based learning approach to patient care.

Prereq: Enrollment in MD program. This course is progress graded (S/U).

Summer 2024 Term**7690 Graduate Career Independent Study****G** 1

Graduate Level independent study working closely with Dr. Klatt on Mindfulness/Resilience/Yoga scholarly projects.

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

Summer 2024 Term**7710 Health Literacy****M** 1 - 2

Examine and analyze issues of low health literacy, including populations at risk, research, measurement tools, writing in plain language; health communication techniques; and organizational approaches.

Prereq: Grad standing in Health Sciences Professions, Literary Studies Specialization (ASC), Geriatrics Specialization (College of Medicine), or Teaching (College of Education & Human Ecology), or permission of faculty coordinator. This course is progress graded (S/U). Cross-listed in Pharmacy, ArtsSci, Nursing, Medicine, and AlliMed.

Medical Laboratory Science**MEDLBS****Summer 2024 Term****5405 Molecular Techniques in Medical Laboratory Science Laboratory****U G** ½

Theory and clinical applications of molecular techniques used in medical laboratory science.

Prereq or Concur: 5250 and 5300, and enrollment in Medical Laboratory Science Program; or permission of instructor.

Near Eastern Languages and Cultures**NELC****Summer 2024 Term****3704 The Novel in the Middle East****U** 3

The emergence of the novel in the Middle East and development of its major themes and forms.

Prereq: English 1110 (110). Not open to students with credit for 374. GE lit and diversity global studies course.

Summer 2024 Term**5575 Intellectuals in the Middle East****U G** 3

Concerns and conditions of intellectuals in the modern Middle East.

Prereq: Permission of instructor. Not open to students with credit for 675.

Summer 2024 Term**5578 Islamic Law and Society****U G** 3

Examination of the relationship between Islamic law and society; the concept of justice in Islam.

Prereq: Permission of instructor. Not open to students with credit for 678.

Summer 2024 Term**7503 Religions of Ancient Iran****G 3**

Advanced study of the religions of ancient Iran, including Zoroastrianism, Manichaeism, and religions of those ruled by the ancient Persian Sasanid dynasty.

Prereq: Grad standing, or permission of instructor.

Summer 2024 Term**7880 Interdepartmental Studies in the Humanities****G 2 - 4**

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

Prereq: Grad standing, or permission of instructor(s). Repeatable to a maximum of 12 cr hrs or 5 completions.

Neuroscience Department**NEUROSC****Summer 2024 Term****5070 Neuroengineering and Neuroprosthetics****U G 3**

Gives an overview of the broad field of Neuroengineering for graduate and senior undergraduate students with engineering or neuroscience backgrounds. Focusing on neural interfaces and prostheses, this course covers from basic neurophysiology and computational neuronal models to advanced neural interfaces and prostheses currently being actively developed in the field.

Prereq: ECE 3050, BiomedE 3703, or Neurosc 3010, or permission of instructor; or Grad standing in Engr or Neurosc. Not open to students with credit for ECE 5194.03. Cross-listed in ECE.

Summer 2024 Term**5644 Behavioral Endocrinology****U G 3**

Exploration of the interactions among hormones, brain, and behavior through an integrative approach.

Prereq: Psych 313, or Grad standing, or permission of instructor. Not open to students with credit for 644 or Psych 4644 (644). CT Admis Cond course.

Summer 2024 Term**7200.02 Current Topics in Systems Neuroscience****G 1**

In this course students will be assigned journal articles in the field of Systems Neuroscience that will be correlated with material presented in NeuroSc 7002. They will be expected to discuss the papers in class under faculty guidance.

Prereq: Permission of instructor. This course is graded S/U. Admis Cond course. Cross-listed in Dent 7012.02.

Summer 2024 Term**7890 Seminar Topics in Neuroscience****G 1**

Selected topics in neuroscience are presented by faculty, invited speakers from outside the university, and by students enrolled in the course. Students will discuss papers related to the research of outside speakers.

Prereq: Permission of instructor. Repeatable to a maximum of 15 cr hrs.

Nursing Advancement**NRSADVN****Summer 2024 Term****4400 Evolving Concepts in Nursing Leadership and Management****U 3**

Exploration of leadership and management concepts as applied to nursing practice and the health care environment.

Prereq: 4240, 4780, or permission of instructor. Not open to students with credit for Nursing 510.

Nursing Practice**NRSPRCT**

Summer 2024 Term**8898 DNP Clinical Immersion****G 5**

Integration and synthesis of knowledge and practice experiences designed to achieve essential and specialty components of the DNP role.

Prereq: Successful completion of DNP Professional Examination. Repeatable to a maximum of 10 cr hrs.

Nursing**NURSING****Summer 2024 Term****5300 Nursing Care of the High-Risk Neonate****U G 2**

Introduction to the role of the neonatal nurse in the provision of comprehensive nursing care of the high-risk neonate.

Prereq: 2450 (385.03) or 7450 (704), or permission of instructor. Not open to students with credit for 657.

Summer 2024 Term**5410 Health Assessment Review****U G 2**

Review of basic health assessment skills with emphasis on health history taking, physical examination techniques and recording concise summaries.

Prereq: Permission of instructor. Not open to students with credit for 605.

Summer 2024 Term**6330 Advanced Pediatric Physical Assessment for the School Nurse****G 2**

Application of principles from growth and development, anatomy, physiology, pathophysiology, clinical decision-making and relevant health assessment data to school nurses in the care of the school age child.

Prereq: Enrolled in the College of Nursing, the College of Education School Nurse Program, or permission of instructor. Not open to students with credit for 723.

Summer 2024 Term**7258.01 Foundational Knowledge for Nursing and Health Systems Management****G 1 - 10**

Study of the theoretical knowledge that provides the foundation for Nursing leadership in program and health systems management across the continuum of care.

Prereq: 7403 and admission to the Nursing and Health Systems Management specialty. Not open to students with credit for 807, 808, or 809.

Summer 2024 Term**7258.02 Skills for Nursing and Health Systems Management****G 1 - 10**

Study of the skills, strategies, and techniques necessary for program and health systems Nursing management across the continuum of care.

Prereq: 7258.01. Not open to students with credit for 807, 808, or 809.

Summer 2024 Term**7318.01 Neonatal Clinical Nurse Specialist Practicum I****G 7**

First of two practicums to apply advanced practice nursing theories, research findings, skills and interventions, including pharmacological management in the care of neonates by clinical nurse specialists across a variety of care settings.

Prereq: 7300, 7301, 7302, 7303, and enrollment in the Neonatal CNS specialty.

Summer 2024 Term**7318.02 Neonatal Clinical Nurse Specialist Practicum II****G 7**

Second of two practicums advanced practice nursing theories, research findings, skills and interventions, including pharmacological management in the care of neonates by clinical nurse specialists across a variety of care settings.

Prereq: 7300, 7301, 7302, 7303, 7318.01 and enrollment in the Neonatal CNS specialty.

Summer 2024 Term**7378 Advanced Nursing Practice Adult Clinical Nurse Specialist Clinical Practicum****G 1 - 10**

Application of theories, research findings, skills and interventions, including pharmacologic, for advanced practice in the care of adults with all types of acute and chronic health problems.
 Prereq: 7228.01. Not open to students with credit for 859.

Summer 2024 Term**8890 Professional Issues in Nursing****G ½ - 2**

Examine professional issues facing the nurse scientist in academia, practice, and research.
 Prereq: Enrollment in PhD program in Nursing; successful completion of the PhD Candidacy Examination.
 Repeatable to a maximum of 8 cr hrs or 10 completions. This course is graded S/U.

Pathology**PATHOL****Summer 2024 Term****5733 Human Genetics****U G M 2**

The principles of human genetics covering mapping of disease genes, defects causing human disease, the cloning of disease genes, gene therapy, transgene, and specific pathological disorders.
 Prereq: MolGen 4500 or 4606, or equiv, and Sr standing. Not open to students with credit for 733, MolGen 5733 (733), or MolBioc 5733 (MolBioch 733). Cross-listed in MolGen and MolBioc.

Summer 2024 Term**6670 Medical Cytogenetics****G 3**

Overview of cytogenetics in medical diagnosis and evaluation, including laboratory techniques, nomenclature, structural and numerical chromosome abnormalities; prenatal, constitutional, molecular, and cancer cytogenetics. Recommended coursework in genetics and molecular cell biology.
 Prereq: Not open to students with credit for 670.

Summer 2024 Term**7793.09 Surgical Pathology****G 1 - 9**

Student is expected to learn and acquire progressive experience in the microscopic diagnosis of various disease entities.
 Prereq: Med III and IV standing, or Grad and Prof standing, and permission of instructor. Repeatable to a maximum of 18 cr hrs or 2 completions. This course is graded S/U.

Persian**PERSIAN****Summer 2024 Term****2301 Persian Mythology and Folklore****U 3**

Mythology and folklore of Persian-speaking lands, from cosmological texts through popular theater and narrative performance to popular customs and beliefs.
 Prereq: English 1110 (110). Not open to students with credit for 370. GE lit and diversity global studies course.

Summer 2024 Term**3704 Persian Epic in Translation****U 3**

An introduction, in English, to the Shahnameh of AbolQasem Ferdowsi.
 Prereq: English 1110. Not open to students with credit for 2704. GE lit course.

Philosophy**PHILOS**

Summer 2024 Term

1101H Mind and Its Place in Nature: Western Conceptions of the Self from Antiquity to the Present, Part I

U 3

Focuses on how changing conceptions of human self-understanding have affected developments in the sociopolitical, cultural, and economic realms, and vice-versa, from the close of the classical world to the modern age.

Prereq: Honors standing, or permission of instructor. Not open to students with credit for 111H. GE historical study and diversity global studies course.

Summer 2024 Term

1102H Mind and Its Place in Nature: Western Conceptions of the Self from Antiquity to the Present, Part II

U 3

Focuses on how changing conceptions of human self-understanding have affected developments in the sociopolitical, cultural, and economic realms, and vice-versa; the modern age to the 21st century.

Prereq: Not open to students with credit for 112H. GE historical study and diversity global studies course.

Summer 2024 Term

2450H Philosophical Problems in the Arts

U 3

Introduction to major philosophical issues in the arts; examination of artistic intention, representation vs. abstraction, the grounds and objectives of art criticism, the import of cultural differences and their application to specific works of art.

Prereq: Honors standing or permission of department or instructor. Not open to students with credit for 240 or 240H. GE VPA course.

Pharmacy

PHR

Spring 2025 Semester

5500 History of Pharmacy

U P 3

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Spring 2025 Semester

5500 History of Pharmacy

U P 3

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Spring 2025 Semester

5500 History of Pharmacy

U P 3

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Spring 2025 Semester

5500 History of Pharmacy

U P 3

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Spring 2025 Semester

5500 History of Pharmacy

U P 3

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Spring 2025 Semester

5500 History of Pharmacy

U P 3

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Spring 2025 Semester

5500 History of Pharmacy

U P 3

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Spring 2025 Semester

5500 History of Pharmacy

U P 3

Evolution and development of the profession of pharmacy from antiquity to the present, with emphasis on its Anglo-American development since the 18th century.

Prereq: Soph standing in BSPS, or enrollment in PharmD program. Not open to students with credit for 5130.

Spring 2025 Semester

5580 Professional Ethics

U P 1½

The conceptual basis and content of pharmaceutical ethics; significance of codified ethics, interprofessionally considered; individual and group analysis of ethical issues; methods of encouraging compliance.

Prereq: Soph standing in BSPS program, or enrollment in PharmD program. Not open to students with credit for 5140.

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.

Physical Therapy

PHYSTHR

Summer 2024 Term

8071 Management II: Administrative Skills

G 2

Administrative skills for the management of PT practice in various settings, introduce basic principles of administration and management that are applicable to PT practices.

Prereq: Enrollment in the Doctorate in Physical Therapy program.

Summer 2024 Term

8620 Entrepreneurial Leadership in PT

G 1

Develop leadership skills and integrate leadership theory in running a physical therapy private practice. This seminar progresses the learner from basic administrative and supervisory principles and theory to the application of higher level skills.

Prereq: Must be enrolled in Physical Therapy, or permission of instructor. This course is graded S/U.

Summer 2024 Term

8677 Differential Diagnosis for Physical Therapists II

G 2

Clinical decision making related to systemic disease that can present as neuromuscular or musculoskeletal conditions. Case studies and related literature will be used to explore systemic origins of musculoskeletal or neuromuscular signs and symptoms.

Prereq: Enrollment in the Doctorate in Physical Therapy program.

Political Science

POLITSC

Summer 2024 Term**2367H Contemporary Issues in American Politics****U 3**

Discussion of and critical writing about controversies in contemporary American politics; aimed at fostering analytical abilities in reading comprehension, oral, and written expression.

Prereq: Honors standing, and 101 or 300, and English 110 or 111, and Soph standing; or permission of instructor. Not open to students with credit for 367.01 or 367.01H. GE writing and comm course: level 2 and soc sci orgs and politics course.

Summer 2024 Term**4216 East European Politics****U 3**

Systematic comparison of the sources, dynamics, and outcomes of political, economic, and social transformations in the former Communist countries of Eastern Europe.

Prereq: Not open to students with credit for 530.

Summer 2024 Term**4219 European Political Development****U 3**

Uses experience of France, Germany, Great Britain, and Italy as foundation for understanding the emergence, functioning, and sustainability of different types of political regimes over time.

Prereq: Not open to students with credit for 529.

Summer 2024 Term**4230 Chinese Political System****U 3**

A study of the contemporary political process of Communist China; considerable time will be spent on an analysis of recent political change in China and the process of revolution.

Prereq: Not open to students with credit for 537.

Summer 2024 Term**4241 Special Topics in Latin American Politics****U 3**

Examination of contemporary political challenges confronting Latin America in the twenty-first century, including globalization, poverty, inequality, and democratic consolidation.

Prereq: Not open to students with credit for 540.02. Repeatable to a maximum of 6 cr hrs.

Summer 2024 Term**4591 Seminar in Public Policy****U 3**

Integrative course based on social and behavioral science perspectives about public policy; methods, case studies, analyses, policy solutions.

Prereq: 3115 (305), and Econ 4320 (532), AEDEcon 5330 (631), or PubAfrs 3000 (PubPoIM 522), and two courses in Public Policy specialization, and enrollment in Public Policy minor. Not open to students with credit for SBSCol 591.

Summer 2024 Term**4597.01 International Cooperation and Conflict****U 3**

An examination of the relationships industrialized countries have with each other and developing nations; focus on potential for cooperation and conflict.

Prereq: Jr or Sr standing. Not open to students with credit for 597.01 or 597.01H. GE cross-disciplinary seminar.

Summer 2024 Term**4781H Data Analysis in Political Science I****U 3**

Covers basic techniques for analyzing data in political science.

Prereq: Honors standing, Math 1151, and one course in PolitSc at the 3000 level or above; or permission of instructor. Not open to students with credit for 4781 (485), 485H, 585, or 585H. GE data only course.

Summer 2024 Term**4891H Honors Seminar in American Politics****U 3**

Intensive study of selected political science topics and issues in a seminar format; topics vary.

Prereq: Honors standing, or permission of instructor. Repeatable to a maximum of 12 cr hrs.

Summer 2024 Term**7101 Classics in American Politics****G 3**

Examination of basic concepts and approaches; consideration of methodological and substantive problems encountered at various levels of analysis.
Repeatable to a maximum of 6 cr hrs or 2 completions.

Summer 2024 Term**7190 Readings on the Policy Process****G 3**

Consideration of the basic theories, concepts, and techniques used in policy analysis; the determinants of public policy; and the impact and evaluation of public policy.
Prereq: Not open to students with credit for 779.

Summer 2024 Term**7212 Southern European Politics****G 3**

A comprehensive overview of government and politics in Greece, Italy, Portugal, and Spain.
Prereq: Not open to students with credit for 727.02.

Summer 2024 Term**7216 East European Politics****G 3**

An examination of the transformation of East European societies since the end of the Communist era.
Prereq: Not open to students with credit for 727.04.

Summer 2024 Term**7234 Contemporary Politics of South Asia****G 3**

Examination of core theories in the study of South Asian politics. Topics include party and electoral politics, religious violence, economic development and reform, international conflict.
Prereq: Not open to students with credit for 739.

Summer 2024 Term**7240 Problems in Latin American Politics****G 3**

A structured examination of the major theories, concepts, and approaches used in the analysis of Latin American politics.
Prereq: Not open to students with credit for 740.

Psychology**PSYCH****Summer 2024 Term****5601 Comparative Psychology****U G 3**

Research on animal behavior by psychologists and ethologists; behavioral differences between species; emphasis on evolutionary and adaptive significance of the mechanisms underlying behavior.
Prereq: A grade of C- or above in 2220, 2300, and 3313; or Grad standing.

Summer 2024 Term**5610 Emotion Regulation: From Basic Science to Clinical Applications****U G 3**

Despite the growing enthusiasm for understanding how people regulate their emotions, many questions remain unanswered. Are emotions always regulated? Can emotion regulation occur outside of conscious awareness? How can we incorporate the emotion regulation framework to understand and treat mental disorders? We will tackle these questions by adopting perspectives from various areas of psychology.
Prereq: A grade of C- or above in 2220 and 2300; or Grad standing.

Summer 2024 Term**6806 Neurobiology of Learning and Memory****G 3**

Examines the experience-dependent changes in neuroanatomy, neurophysiology, and neurochemistry that occur within specific neural circuits as a consequence of learning and remembering.
Prereq: Not open to students with credit for both 806 and 807.

Summer 2024 Term

6807 Neuropsychopharmacology

G 3

The use of pharmacological agents to influence brain function, slow brain aging and induce recovery of function.
Prereq: Not open to students with credit for both 807 and 808.

Summer 2024 Term

6860 Personality and Its Disorders

G 2

General survey course on current theories of personality and personality disorders with an introduction to some of the supporting research. Basic understanding of the major theories of personality development.
Prereq: Permission of instructor. Not open to students with credit for 860.

Summer 2024 Term

6865 Introduction to Clinical Psychology: History, Ethics, and Pragmatics

G 3

Overview of clinical interviewing skills, theory and application of a cognitive behavioral orientation to psychotherapy, and ethical issues in clinical psychology.
Prereq: Admission to psychology's clinical doctoral program. Not open to students with credit for 865.

Summer 2024 Term

7856 Child Behavior Assessment and Therapy

G 3

Assessment and treatment approaches for child behavior problems.
Prereq: Permission of instructor. Not open to students with credit for 856.

Summer 2024 Term

7860 Personality and Its Disorders Lab

G 1

Lab to accompany 6860 (Personality and Its Disorders). Focus on assessment and treatment issues specific to personality disorders.
Prereq: Enrollment in Doct level clinical psychology, and permission of instructor.

Summer 2024 Term

7892 Workshop

G 1 - 9

Intensive study of an area or problem in psychology.
Repeatable to a maximum of 9 cr hrs or 3 completions.

Summer 2024 Term

7895 Current Issues in Cognitive Development

G 3

Current topics in cognitive development.
Prereq: Not open to students with credit for 846. Repeatable to a maximum of 21 cr hrs or 7 completions. This course is graded S/U.

Public Affairs, John Glenn College

PUBAFRS

Summer 2024 Term

4060 Senior Leadership Seminar

U 3

Students integrate multidisciplinary theoretical and practical approaches of leadership development and civic engagement to reflect on how leadership is defined, how it changes, and how individuals and groups can apply experience in college to civic minded engagement and change after graduation.
Prereq: Sr standing.

Summer 2024 Term

4600 Ohio Public Safety Leadership Program

U 10

10-week intensive course designed specifically for Ohio's Public Safety Officers to develop and refine leadership and management skills. Participants must be approved by Ohio State Highway Patrol selection process. Must have prior acceptance through Ohio State Highway Patrol selection process in order to enroll.
Prereq: Permission of unit. Repeatable to a maximum of 20 cr hrs.

Summer 2024 Term**5881 Interdepartmental Seminar****U G 1 - 3**

Two or more departments may collaborate in presenting seminars in subjects of mutual interest; topics to be announced.

Repeatable to a maximum of 15 cr hrs or 5 completions.

Summer 2024 Term**7504 Science and Technology Policy****G 3**

Surveys various aspects of science and technology policy such as scope, rationales, actors, politics of decisions, types of policies and priorities.

Prereq: Not open to students with credit for 880.05.

Summer 2024 Term**7506 Workforce Planning and Policy****G 3**

Review of national level workforce systems; examination of technical aspects of workforce planning in nat'l and state policy contexts; planning governmental investments in education and workforce infrastructure using actual govt agency data.

Summer 2024 Term**7525 Policy and Strategy in the Nonprofit Sector****G 3**

Provides students with a broad overview of the nonprofit sector, exploring historical and legal foundations, the environmental context (and related opportunities and threats), and critical issues for particular nonprofit subsectors.

Prereq: Not open to students with credit for 880.06.

Summer 2024 Term**8890.04 College Teaching in Public Affairs****G 2**

This interactive seminar assists advanced graduate students developing the necessary skills for college level teaching in public affairs: pedagogical strategies; theoretical and interdisciplinary practices, instructor professional development.

Prereq: Grad standing, and permission of instructor.

Public Health: Environmental Health Sciences**PUBHEHS****Summer 2024 Term****8899 Doctoral Seminar in Environmental Health Sciences****G 1 - 3**

Doctoral level seminar on topics that are relevant to students enrolled in the PhD program in health environmental health sciences.

Repeatable to a maximum of 9 cr hrs or 9 completions. This course is graded S/U.

Public Health: Epidemiology**PUBHEPI****Summer 2024 Term****5421 Mathematics of Infectious Disease Dynamics****U G 3**

Provides an introduction to mathematical modeling of infectious diseases, including techniques for building and analyzing disease models, and discussions of calibration and comparison of models with data. This course is intended for graduate students in public health or other related disciplines and for upper level undergraduate and graduate mathematics students.

Prereq: Math 1152, 1172, or 153; or permission of instructor. Cross-listed in Math.

Summer 2024 Term**6400 Epidemiology for Experienced Health Professionals****G 3**

Introduction to the nature and scope of epidemiology; survey of basic epidemiological methods and their application to selected acute and chronic health problems. For experienced health professionals.

Prereq: Enrollment in MPH-PEP program, or permission of instructor. Not open to students with credit for 6410 and 6420.

Summer 2024 Term**7830 Phytochemicals in Human Health: Crops to the Clinic****G 3**

Covers the function and control of phytochemicals in plants, the function of phytochemicals in human health, delivery of phytochemicals through foods in the diet, strategies when designing studies examining foods for health, and policy and sustainability considerations.

Prereq: Biochem 4511 (511) or 5613 (613), or equiv; or permission of instructor. Not open to students with credit for FdScTe 7810. Cross-listed in FdScTe, HumnNtr, BSGP, and HCS.

Summer 2024 Term**7899 Seminar in Epidemiology****G 1 - 3**

Seminar on topics that are relevant to students enrolled in programs in the Division of Epidemiology.

Prereq: Enrollment in Public Health, Grad standing, and permission of instructor. Not open to students with credit for 850. Repeatable to a maximum of 9 cr hrs. This course is graded S/U.

Public Health: Health Behavior & Health Promotion**PUBHHBP****Summer 2024 Term****7570 Obesity, a Multidisciplinary Foundation****G 2**

This course examines the context, causes, and consequences of obesity in the United States today. We will begin with an examination of trends in obesity and a description of the scope of the problem. Next, the course will examine physiological, psychological, sociological, and economic factors that contribute to the obesity problem.

Cross-listed in HDF5.

Public Health: Health Services Management & Policy**PUBHHMP****Summer 2024 Term****7603 Economic Evaluation of Health Care Programs****G 3**

Intended to give students an overview of the theory and applications of cost-benefit analysis, cost-effectiveness analysis, cost-utility analysis and related forms of economic evaluation of interventions in the health care sector.

Prereq: Grad standing, or permission or instructor.

Summer 2024 Term**7650 Advanced Topics in Health Services Management and Policy****G 1 - 3**

Seminar on issues and methods of inquiry in health services management and policy.

Prereq: Enrollment in PhD program in Public Health, or permission of instructor. Not open to students with credit for 900. Repeatable to a maximum of 9 cr hrs or 6 completions.

Public Health**PUBHLTH****Summer 2024 Term****3189.02 Field Experience in Global Public Health: China****U 3**

Global public health concepts and associated metrics; role of cultural, social, economic, and environmental factors on public health in China; instructions in a classroom setting on a Chinese campus and through field trips.

Prereq: Major or minor in PubHlth or in health/biology-related areas; or permission of instructor.

Summer 2024 Term**3189.02E Field Experience in Global Public Health: China****U 3**

Global public health concepts and associated metrics; role of cultural, social, economic, and environmental factors on public health in China; instructions in a classroom setting on a Chinese campus and through field trips.

Prereq: Major or minor in Public Health or in health/biology-related areas, or permission of instructor.

Summer 2024 Term**3189.04 Field Experience in Global Public Health: Finland and Estonia****U 3**

Global public health concepts and associated metrics; role of cultural, social, economic, and environmental factors on public health in Finland and Estonia; instructions in a classroom setting and through field trips.

Summer 2024 Term**6189.01 Field Experience in Public Health****G 1 - 6**

Placement in a public health agency or related site for supervised practice experience.

Prereq: Enrollment in public health degree program, and permission of instructor. Repeatable to a maximum of 6 cr hrs or 6 completions. This course is graded S/U.

Summer 2024 Term**7191 Internship****G 1 - 6**

Placement in an agency or related site for supervised practice experience.

Prereq: Enrollment in public health degree program, and permission of instructor. Repeatable to a maximum of 6 cr hrs or 6 completions. This course is graded S/U.

Summer 2024 Term**7350.01 Topics in Applied Public Health Practice: General****G 1 - 3**

The foundation of the course includes theory and applications relevant to specific rubrics of applied public health practice, with a theme of general public health practice.

Repeatable to a maximum of 12 cr hrs or 6 completions. This course is graded S/U.

Radiology**RADIOLG****Summer 2024 Term****5680 Radiation Biology****U G 2**

Effect of ionizing radiation in biological systems at the molecular, cellular, organ, organism, and community levels with specific emphasis on medical implications and radiation safety.

Prereq: Permission of instructor.

Summer 2024 Term**6813 Magnetic Resonance Spectroscopy and Imaging I****G M 3**

Presentation of the basic principles of MRI/MRS, including basic MR physics, pulse sequences, adiabatic excitation, coil design, MR hardware, image formation, localized spectroscopy.

Prereq: Grad standing, or permission of instructor. Cross-listed in BiomedE 6113 and Biophys 8813.

Scandinavian**SCANDVN****Summer 2024 Term****4150 Reading the Scandinavian Languages****U 3**

Fundamentals of grammar of the Scandinavian languages for research purposes in the humanities, sciences, and social and behavioral sciences.

Prereq: Not open to students with credit for 571.

Summer 2024 Term**4450 The Films of Ingmar Bergman****U 3**

Major works of one of Europe's greatest art cinema directors; emphasis on his development of a post-modernist aesthetic.

Prereq: Not open to students with credit for Scandnav 520. GE VPA and diversity global studies course.

Slavic Languages and Literatures**SLAVIC**

Summer 2024 Term**7370 Violence and Alterity in the Balkans****G 3**

Critical and comparative analysis of violence and its expressions in epic, novel, and film in the Balkans. Taught in English.

Prereq: Grad standing or permission of instructor. Not open to students with credit for 770.

Summer 2024 Term**8860 Seminar in Slavic Second Language Acquisition****G 3**

Special topics & guided research in advanced issues of SLA, psycholinguistics, bilingualism, code-switching, & language contact, including evidence from studies of Slavic & East European languages. Taught in English.

Elective for GIS in SLS.

Prereq: Grad standing or permission of instructor. Repeatable to a maximum of 12 cr hrs.

Sociology**SOCIOL****Summer 2024 Term****2391 Social Organization of Communities****U 3**

Development of the modern community; approaches to the study of communities; significance of processes and value systems for community organization and disorganization.

Prereq: Not open to students with credit for 391.

Summer 2024 Term**3410H Criminology (Honors)****U 3**

Theories of delinquency, crime, and criminal careers; scientific aspects of crime measurement.

Prereq: Honors standing, or permission of department or instructor. Not open to students with credit for 410H.

Summer 2024 Term**4000H Social Science Business Collaborative: A Service Learning Approach****U 3**

Sociology 4000H is an Honors course designed to help students develop research projects through collaboration with a local business to work on a service project; link university resources to bear on community issues, facilitate data collection, learn the process of project management, present research findings in both academic and applied settings, learn through bettering the community.

Prereq: Honors standing and 1101, or permission of instructor. Repeatable to a maximum of 6 cr hrs. GE service learning course.

Summer 2024 Term**4189.02 Fieldwork in Criminology and Criminal Justice****U 3**

Practicum in criminology and/or the criminal justice system. Credit does not apply to hours in the sociology/criminology major.

Prereq: Enrollment in Sociology or Criminology major, or permission of instructor. Not open to students with credit for 589.02. This course is graded S/U.

Summer 2024 Term**4591S Building Community Capacity: A Service Learning Approach****U 3**

This service learning course will explore the basic concepts, methods, and approaches used when sociology is put into practice in urban, organizational settings.

Au semester. Prereq: 3 cr hrs in Sociology at 2000-3000 (200-400).

Summer 2024 Term**4607 Sociological Perspectives on New Media****U 3**

Examines how new media color our experiences of communication, culture, politics, and contemporary social life. Acknowledging that all media were at one point new media, this course begins by using "newness" as a frame through which to examine the practices, uses and meanings surrounding current media technologies.

Summer 2024 Term**5680 Marriage and Its Alternatives****U G 3**

An in-depth look at some emerging life style patterns, such as dual-career marriages, childless marriages, single-parent families, blended families, singlehood, cohabitation, etc.
 Prereq: 3 cr hrs in Sociol at 2000-3000 level or above.

Statistics**STAT****Summer 2024 Term****8830 Advanced Topics in Statistics III****G 1 - 3**

A systematic advanced treatment of areas of current interest in Statistics. Topics will be announced each semester.

Prereq: Grad standing in Statistics or Biostatistics, or permission of instructor. Repeatable to a maximum of 24 cr hrs or 8 completions.

Summer 2024 Term**8840 Advanced Topics in Statistics IV****G 1 - 3**

A systematic advanced treatment of areas of current interest in Statistics. Topics will be announced each semester.

Prereq: Grad standing in Statistics or Biostatistics, or permission of instructor. Repeatable to a maximum of 24 cr hrs or 8 completions.

Summer 2024 Term**8850 Advanced Topics in Biostatistics I****G 1 - 3**

A systematic advanced treatment of areas of current interest in Biostatistics. Topics will be announced each semester.

Prereq: Grad standing in Statistics or Biostatistics, or permission of instructor. Repeatable to a maximum of 24 cr hrs or 8 completions.

Summer 2024 Term**8860 Advanced Topics in Biostatistics II****G 1 - 3**

A systematic advanced treatment of areas of current interest in Biostatistics. Topics will be announced each semester.

Prereq: Grad standing in Statistics or Biostatistics, or permission of instructor. Repeatable to a maximum of 24 cr hrs or 8 completions.

Surgery**SURGERY****Summer 2024 Term****5610 Techniques in Transplantation Research****U G 2**

Provides students with exposure to theoretical & practical aspects of techniques in transplant research.

Prereq: Permission of instructor. Not open to students with credit for 610. This course is graded S/U.

Theatre**THEATRE****Summer 2024 Term****2101H Introduction to Theatre: Making History****U 3**

Introduction to theatrical performance through examining play texts and communicating with the playwrights from the archives of the Lawrence and Lee Theatre Research Institute.

Prereq: Honors standing or permission of instructor. Not open to students with credit for 2100 (101) or 2100H (101H). GE VPA course.

Spring 2025 Semester

2367.01 Self Images: America on Stage, 1830 to the Present

U 3

Exploration of the images of Americans presented on popular stages through written analysis of theatrical and critical texts. GEL students should complete English 1110 prior to enrollment. GE writing and comm course: level 2 and diversity soc div in the US course. GE foundation writing and info literacy course.

Summer 2024 Term

2367.01H Self Images: America on Stage, 1830 to the Present

U 3

Exploration of the images of Americans presented on popular stages through written analysis of theatrical and critical texts.

Prereq: Honors and Soph standing, and English 1110 or equiv. Not open to students with credit for 2367 (367). GE writing and comm course: level 2 and GE diversity soc div in the US course. GE foundation writing and info literacy course.

Summer 2024 Term

5731 London Theatre and Culture

U G 2

This course prepares students for the London Theatre Program study abroad experience at Ohio State. Repeatable to a maximum of 6 ch hrs.

Summer 2024 Term

6431 Stage Properties

G 1½

Exploration of scenic/design technology topics including stage properties, advanced scene painting, surface treatments.

Prereq: Not open to students with credit for 646.

Turkish

TURKISH

Summer 2024 Term

5377 Turkish Theatre, Music, & Dance

U G 3

Cross-cultural, multidisciplinary exploration of Turkish theatre, music, and dance in Anatolian folk traditions, classical Ottoman works, 20th Century movements, and those of the present day. Students address theoretical questions of Performance Studies with guided research, historical and ethnographic texts, and performance workshops.

Prereq: Jr, Sr, or Grad standing; or permission of instructor.

Women's, Gender, and Sexuality Studies

WGSST

Summer 2024 Term

2300 Approaches to Feminist Inquiry

U 3

Introduction to principles of feminist analysis as they apply to a range of contemporary issues and institutions.

Prereq: Not open to students with credit for 300.

Summer 2024 Term

7720 Theorizing Power, Institutions, and Economies

G 3

Examination of feminist theoretical approaches to the material conditions of women's lives and the changing structures of social, economic, and political power.

Prereq: Not open to students with credit for 720.

Summer 2024 Term

7740 Theorizing Narrative, Culture, and Representation

G 3

Designed to introduce graduate students to the central debates that have characterized feminist theories of representation.

Prereq: Not open to students with credit for 740.

Summer 2024 Term**8820 Topics in Power, Institutions, and Economies****G 3**

Advanced study of variable topics relating to gender, power, and change, both theoretical (especially materialist) and practical.

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

Summer 2024 Term**8860 Topics in Feminist Methodology****G 3**

Advanced study of variable topics relating to feminist methodology, methods, and research.

Repeatable to a maximum of 30 cr hrs or 30 completions.

Summer 2024 Term**8880 Topics in Global and Transnational Feminisms****G 3**

Various possible offerings on the subject of transnational feminisms.

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

Summer 2024 Term**8896.20 Women in Science****G 1**

In this seminar course, participants will read key papers concerning the status of women in the STEM disciplines (Science, technology, engineering, and mathematics).

Prereq: Grad standing, or permission of instructor. This course is graded S/U. Cross-listed in EEOB.

Yiddish**YIDDISH****Summer 2024 Term****2367 Jewish-American Voices in U.S. Literature****U 3**

Introduction to Jewish-American literature; development of expository writing and argumentation skills through systematic and critical reflection upon their own country from the perspective of an ethnic community.

Prereq: English 1110 (110) or equiv. Not open to students with credit for 367 or JewshSt 2367. GE writing and comm: level 2 and cultures and ideas course. Cross-listed in JewshSt.

Summer 2024 Term**4721 Studies in Yiddish Literature****U 3**

Advanced study of specific literary periods, figures, and/or topics involving extensive reading and discussion of appropriate primary and secondary source materials.

Repeatable to a maximum of 9 cr hrs.

Summer 2024 Term**5798 Study Tour****U G 3 - 9**

Travel to a specific site for intensive study related to that site in conjunction with an Ohio State course.

Prereq: Permission of Yiddish Program Director. Repeatable to a maximum of 27 cr hrs or 9 completions.

Summer 2024 Term**7721 Studies in Yiddish Literature****G 3**

Advanced study of specific literary periods, figures, and/or topics involving extensive reading and discussion of appropriate primary and secondary source materials.

Repeatable to a maximum of 9 cr hrs. Specific topics not repeatable for credit.



Council on Academic Affairs Approval

New Program	Proposed By	Status	Date Approved
Dual PhD Degree with the Indian Institute of Technology Bombay	College of Engineering	Approved by CAA	9/4/2024
		No additional approvals necessary	

New Program	Proposed By	Status	Date Approved
Certificate in the Sustainable Energy and the Economy Program	College of Food, Agricultural, and Environmental Sciences	Approved by CAA	9/18/2024
		No additional approvals necessary	