

# April 2026

## Course Number Change

### Computer Science and Engineering

**CSE**
**Autumn 2026 Semester**
**5781**      **Research-Focused Projects**
**U G**      **4**
*Previous Number: 5916*
*Components: LEC*

Research design project; convergent and scalable research formulation and development, computational solutions to open-ended research problems, teamwork, written and oral communication skills.

Prereq: 2501, or Philos 1338 or 2338; and CSE 3901, or 3902 or 3903; and GenEd 1201 or GenEd 2601; and GE writing and comm course: level 2, or GE foundation writing and info literacy course; or Grad standing.

### Psychology

**PSYCH**
**Spring 2027 Semester**
**3389**      **Career Exploration in Psychology**
**U**      **3**
*Previous Number: 2389*

Orients students toward anticipating & locating opportunities for employment & further study in psychology. Enhances students' self-knowledge, specifically about which psychology-related careers might be best suited for them given their strengths, interests, personality, lifestyle, & preferences. Students will learn to write effective resumes, cover letters, CVs, & personal statements.

Prereq: 1100 or 1100H; and enrollment in Psych major. Not open to students with credit for 2389.

## New Course

### Chemical and Biomolecular Engineering

**CBE**
**Spring 2027 Semester**
**1234**      **Introduction to Chemical Engineering Computational Tools**
**U**      **2**

Introduces common software packages and programming languages used in chemical engineering (ChE); fundamentals of scientific and engineering programming and problem-solving techniques in spreadsheet programs used in ChE; applications including chemical process simulation, root-finding solutions to material balance problems, and chemical plant data processing and visualization to identify trends.

Prereq: Engr 1181, 1187, or 1281.0xH; and a major in CBE.

### Chemistry

**CHEM**
**Spring 2027 Semester**
**4210**      **Physical Chemistry for Chemical Science II**
**U**      **3**

This course will cover equilibrium thermodynamics, including gas laws and kinetic theory, the First and Second Laws of Thermodynamics, Entropy and Free Energy, chemical equilibrium, mixtures. Elementary statistical mechanics ideas will be incorporated into the development of the thermodynamics material. Finally, this course will cover chemical kinetics and dynamics.

Prereq: 4200. Not open to students with credit for 4300, 4310, Biochem 5721 and 5722.

### Dentistry

**DENT**

### Spring 2027 Semester

**6547 IDT Clinical Dentistry Competency**

**D 2**

This course prepares students in the IDT track to enter clinic. The course will review preclinical operative and fixed prosthetic materials and procedures and test competency in these procedures.

Prereq: Acceptance to the Advance Standing International Dentistry Track in the DDS Program. This course is graded S/U.

## Design

DESIGN

### Spring 2027 Semester

**4156 Immersive Media Design 2**

**U 3**

Advanced practices for extended reality (XR) design and development. Focus on skills in conceptualization, pre-production, planning, and production of working XR prototypes. Examine current trends in developing technologies and the use of real-time graphics. Assess, hack, and experiment with new methods, software and hardware for creating and delivering digital XR experiences.

Prereq: 4106.

## Entomology

ENTMLGY

### Spring 2027 Semester

**3600 Insect Life in a Changing World**

**U 3**

This course explores the intricate relationships between insects, humans and the environment they share. Our world is rapidly changing; our climate is warming, storms are becoming more intense and frequent, and cities are expanding to meet our needs. Students will examine how environmental change affects insect diversity, distribution, and behavior, and how these influence ecosystems and humans.

## Industrial and Systems Engineering

ISE

### Autumn 2026 Semester

**5840.02 Systems Engineering Lifecycle Foundations**

**U G 3**

This course introduces the essential principles, processes, and practices associated with the application of Systems Engineering tools to the system life-cycle. Emphasis will focus on defining the problem to be solved, establishing the initial system architectures and requirements, design, verification and validation, along with the inter-disciplinary nature of systems. For professional Master SE.

Prereq: Accepted into the College of Engineering's Master of Systems Engineering program.

### Autumn 2026 Semester

**5844.02 Systems Requirements Engineering**

**U G 3**

This course will provide an understanding of the essential concepts, practices, and applications of requirements engineering and analysis used to elicit and model systems requirements. Course includes how to apply requirements engineering to elicit requirements for different types of systems. This course is for the online professional Master of Systems Engineering.

Prereq: Accepted into the College of Engineering's Master of Systems Engineering program.

## Law

LAW

### Spring 2027 Semester

**4040 Legal Research Method**

**U 3**

How to conduct basic legal research to find, track, and engage with the law-skills that are not only beneficial to you in college but also in your professional, personal, and civic lives.

## Plant Pathology

PLNTPTH

### Spring 2027 Semester

**5002 Plant Disease, Diagnosis, and Management: Bacteria and Viruses**

**U G 4**

In this course, students will examine the causes, consequences of and management options for biotic and abiotic plant diseases that impact productivity, food security and food safety, with a focus on disease-causing bacteria and viruses. Lecture sessions focus on disease biology, diagnosis and management; laboratory sessions cover diagnostic techniques.

Prereq: 3001 and 3002; or 6001; or Grad standing; or permission of instructor.

## Remove from Limbo

### Aerospace Engineering

AEROENG

#### Autumn 2026 Semester

**8830 Random Dynamical Systems**

**G 3**

Elements of axiomatic theory of probability, measure theory, stochastic differential equations, and martingales. Study of tools, e.g., sequential Monte Carlo, stochastic linearization, moment closure, Fokker-Planck equations, parameter estimation.

Prereq: ECE 6001, or Grad standing in Mechanical or Aerospace Engineering, or permission of instructor.

### Business Admin: Marketing & Logistics

BUSML

#### Spring 2027 Semester

**4384 Supply Chain Management Tools and Artificial Intelligence**

**U 1½**

Tools & methods for assessing & improving the SC, emphasis on generative & agentic AI applications across logistics functions. Explore how LLMs can be applied to procurement, transportation, warehousing, & strategic planning. Develop hands-on skills in prompt engineering, RAG, & AI-assisted analysis of SC documents and data. Builds on cross-functional process knowledge of AI strategy across the SC.

Prereq: 4383 and BusMHR 2292 (BusAdm 499.01).

*Components: LEC LAB*

### Classics

CLAS

#### Spring 2027 Semester

**4204 Greek and Roman Science and Technology**

**U 3**

The origins and achievements of Greek and Roman science and technology.

Prereq: Not open to students with credit for Classics 506.

### Dance

DANCE

#### Autumn 2026 Semester

**6803 Interdisciplinary Seminar**

**G 1 - 3**

Advanced problems in dance and related areas; nature of seminar based on selected topics.

Prereq: Grad standing or permission of instructor. Repeatable to a maximum of 8 cr hrs or 4 completions.

## Update Course

### Agricultural Communication, Education & Leadership

ACEL

### Spring 2027 Semester

**7999 Research in ACEL, MS**

**G 1 - 12**

Research for thesis or MS project purposes only. Research may take place in on or off-campus locations at The Ohio State University in Columbus or other associated research areas as determined by student and instructor. Research may include quantitative, qualitative, mixed methods, experimental, or other social science studies that contributes to the discipline of ACEL.

Prereq: MS Grad standing in ACEL; and permission of instructor. Repeatable to a maximum of 40 cr hrs or 24 completions. This course is graded S/U.

### Spring 2027 Semester

**8193 Individual Studies**

**G 1 - 5**

Planning, conducting, and reporting a special study appropriate to the needs of the individual student.

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

### Spring 2027 Semester

**8998 Research in ACEL, PhD Pre-Candidacy**

**G 1 - 12**

Research completed on special projects or as part of the dissertation, pre-candidacy. Research may take place in on or off-campus locations at The Ohio State University in Columbus or other associated research areas as determined by student and instructor. Research may include quantitative, qualitative, mixed methods, experimental, or other social science studies that contributes to ACEL.

Prereq: PhD Grad standing in ACEL; and permission of instructor. Repeatable to a maximum of 40 cr hrs or 24 completions. This course is graded S/U.

### Spring 2027 Semester

**8999 Research in ACEL, PhD Post-Candidacy**

**G 1 - 12**

Research for dissertation purposes only. Research may take place in on or off-campus locations at The Ohio State University in Columbus or other associated research areas as determined by student and instructor.

Research may include quantitative, qualitative, mixed methods, experimental, or other social science studies that contributes to the discipline of ACEL. Candidacy exam completion required.

Prereq: PhD Grad standing in ACEL; and permission of instructor. Repeatable to a maximum of 40 cr hrs or 24 completions. This course is progress graded (S/U).

## Agricultural, Environmental, and Dev Economics

AEDECON

### Spring 2027 Semester

**4321 Sustainable Energy**

**U 3**

Sustainable Energy covers the full range of sustainable energy options and technologies today and those projected to potentially play a role in the future. The course focuses on understanding the tradeoffs between the economics of technologies and their sustainability.

### Spring 2027 Semester

**4532 Food Security and Globalization**

**U 3**

Examination of the causes of and solutions for food insecurity. Global and local factors that affect access to food are also considered.

Prereq: Not open to students with credit for IntStds 4532. Cross-listed in IntStds.

## African American and African Studies

AFAMAST

### Autumn 2026 Semester

**7756 Theorizing Race and Ethnicity**

**G 3**

This seminar interrogates & expands on critical theories of race & ethnicity. We examine the significance of race in the modern world & dominant notions of humanity by showing the interconnected ways these processes rest on visions of hierarchy defined in ontological terms & enforced with violence-epitomized by enslavement & colonization-in the long period of white, especially Western, domination.

Prereq: Not open to students with credit for CompStd 7320. Cross-listed with CompStd 7320.

## Agricultural Communication

AGRCOMM

### Spring 2027 Semester

#### 2130 Visual Media in Agricultural and Natural Resources

U 3

Prepares students to be proficient in photography, photo and video editing, and image composition techniques used in the agricultural and natural resource communications fields. Course includes at least one off-campus field trip.

Campus: COL WST

### Spring 2027 Semester

#### 4530 Communicating Agricultural Issues

U 3

This course is designed to introduce students to the world of communicating agricultural science to a variety of audiences. Many times, the topics we are asked to write or speak about are complex and highly emotional. This course will walk you through the theories and skills needed to craft messages that can reach farmers, consumers, politicians and more.

Prereq: 2330 or 2531.

### Spring 2027 Semester

#### 5135.02 AgriNaturalist Practicum

U G 3

This course provides AGRCOMM students with a comprehensive set of skills in magazine layout and design, sales, and multimedia journalism by creating print and online versions of the AgriNaturalist magazine. As members of the AgriNaturalist staff, students will gain knowledge of how print and online magazines are created, financed, and disseminated.

Prereq: 2130, 4130, 5135.01 and 5530; or 5135.01 and Grad standing. Repeatable to a maximum of 6 cr hrs.

## Animal Sciences

ANIMSCI

### Spring 2027 Semester

#### 3797.04 Scotland's Ruminants - Education Abroad

U 3

This course is the second course in a two-course series [ANIMSCI 2400.04 (1 credit) & ANIMSCI 3797.04 (3 credits)] designed to give students an appreciation for the heritage, production, health and well-being of Scotland's ruminant species and explore how world history, government, geography, and infrastructure can impact the management of animals within the Scottish society.

Prereq: Admission to the Scotland's Ruminants education abroad program; and permission of instructor.

Concur: 2400.04.

## American Sign Language

ASL

### Spring 2027 Semester

#### 4189S Immersive Service-Learning Within Deaf Communities

U 4

Students explore the Deaf World focusing on citizenship, diversity & justice. Students are placed in the Deaf & Hard of Hearing community to engage directly with fluent users to understand how equitable access & inclusion shape community life. They will expand language skills, cultural understanding, & awareness of systemic issues, while reflecting on their role as responsible, informed citizens.

Prereq: A grade of C- or above in ASL 1103 or equivalent; or permission of department.

Campus: COL LMA  
MNS MRN NWK WST

## Comparative Studies

COMPSTD

### Autumn 2026 Semester

#### 7320 Theorizing Race and Ethnicity

G 3

This seminar interrogates & expands on critical theories of race & ethnicity. We examine the significance of race in the modern world & dominant notions of humanity by showing the interconnected ways these processes rest on visions of hierarchy defined in ontological terms & enforced with violence-epitomized by enslavement & colonization-in the long period of white, especially Western, domination.

Prereq: Not open to students with credit for AfAmASt 7756. Cross-listed in AfAmASt 7756.

*Components: SEM*

## Computer Science and Engineering

CSE

### Autumn 2026 Semester

#### 4252 Programming in C++

U 1

Syntax and pragmatics of C++ programming; C++ types, arrays, classes, pointers; objects and classes; compile-time vs. run-time picture; inheritance; template classes.

Prereq: 2123, 2124, or 2231; and 2321; and enrollment in CSE, CIS, ECE, Engr Physics, or Data Analytics major, or CS minor. Not open to students with credit for 2122. This course is graded S/U.

### Autumn 2026 Semester

#### 4253 Programming in C#

U 1

C# programming for students well-versed in programming with another object-oriented language.

Prereq: 2122, 2123, 2124 or 2231; and 2321; and enrollment in CSE, CIS, ECE, Engr Physics, or Data Analytics major, or CS minor. This course is graded S/U.

### Autumn 2026 Semester

#### 4256 Programming in Python

U 1

Python programming for students well-versed in programming with another imperative language.

Prereq: 2122, 2123, or 2231; and 2321; and enrollment in CSE, CIS, ECE, Engr Physics, or Data Analytics major, or CS minor. Not open to students with credit for 2124. This course is graded S/U.

### Autumn 2026 Semester

#### 4471 Information Security

U 3

Introduction to security of digital information; threats and attacks; regulations; risk management; attack detection and response; cryptography; forensics; technical training and certifications.

Prereq: 2122, 2123, 2124, or 2231; and 2321; and enrollment in CSE, CIS, ECE, or Data Analytics major, or Information Security or CS minor.

### Autumn 2026 Semester

#### 5052 Survey of Artificial Intelligence for Non-Majors

U G 3

Survey of the basic concepts and techniques in artificial intelligence, including problem solving, knowledge representation, and machine learning.

Prereq: 1211, 1221, 1222, 1223, 1224 or 2221; or Grad standing. Not open to students with credit for 3521, or 5521, or to students enrolled in a CSE or CIS major.

### Autumn 2026 Semester

#### 5241 Introduction to Database Systems

U G 2

Database systems use; logical design; entity-relationship model; normalization; query languages and SQL; relational algebra and calculus; object relational databases; XML; active databases; database design project.

Prereq: 2122, 2123, 2124 or 2231; and 2321, or 2111 and Math 2366. Not open to students with credit for 3241.

### Autumn 2026 Semester

#### 5243 Introduction to Data Mining

U G 3

Knowledge discovery, data mining, data preprocessing, data transformations; clustering, classification, frequent pattern mining, anomaly detection, graph and network analysis; applications. It is assumed that students either have basic Python skills or possess general programming experience and can acquire Python competency through independent study.

Prereq: 3241 or 5241; and 2331, 5331, Stat 3301, or ISE 3200; and enrollment in CSE, CIS, ECE, Data Analytics, or ISE major.

### Autumn 2026 Semester

#### 5331 Foundations II: Data Structures and Algorithms

U G 2

Design/analysis of algorithms and data structures; divide-and-conquer; sorting and selection, search trees, hashing, graph algorithms, string matching; probabilistic analysis; randomized algorithms; NP-completeness.

Prereq: 2122, 2123, 2124 or 2231; and 2321; and Stat 3460, 3470 or 3201. Not open to students with credit for 2331.

### Spring 2027 Semester

#### 4450 Water, Ice, and Energy in the Earth System

U 3

Earth's energy budget and the transfer of water between reservoirs. Processes that regulate water transfer, common measurement approaches, and the importance of water in geological processes, global change, and as a resource.

Prereq: 1100, 1105, 1108, 1121, 1151, 2203, 2204, 2205, 2206, 2210, 2911, Geog 3901, or 5900; or permission of instructor.

### Spring 2027 Semester

#### 5651 Hydrogeology

U G 4

Geologic and hydrologic factors controlling the occurrence, movement, storage, and chemical quality of surface water and ground water; exploration, evaluation, development and management of water resources.

Prereq: 1100, 1105, 1108, 1121, 1151, 2203, 2205, 2210; and Math 1151 or Math 1156 or above; or Grad standing.

### Spring 2027 Semester

#### 5655 Land Surface Hydrology

U G 3

Physical processes of land surface hydrology in the context of the global hydrologic cycle. Consideration of the processes and mechanisms responsible for water and energy fluxes, with examples from various river basins.

Prereq: Math 1151 or Math 1156 or above; or Grad standing; or permission of instructor.

## Electrical and Computer Engineering

ECE

### Autumn 2026 Semester

#### 5554 Applied Control Systems

U G 3

Application of digital control system theory, from viewpoints of input-output and state variable representations, to realistic problems in automotive powertrain systems.

Prereq: 5551; or Grad standing in Engineering, Biological Sciences, or Math and Physical Sciences.

## Evolution, Ecology and Organismal Biology

EEOB

### Spring 2027 Semester

#### 4240 Focused Study of Ecology and Evolution - Plants and People

U 3

Overview of the importance of plants to humans. Students will gain an understanding of the interrelations between humans and plants, including plant domestication, history and uses of spices and flavorings derived from plants, as well as non-food uses of plants. Recommended prereq: previous or concurrent enrollment in EEOB 2210.

Prereq: 1 course in Biological Sciences (Plant Biology preferred).

Components: LEC

### Spring 2027 Semester

#### 4410 Conservation Biology

U 3

Application of ecology, population genetics, and biogeography to the study and conservation of biodiversity, threatened communities, and endangered species.

Prereq: 3310 and 3410; or permission of instructor.

Campus: COL LMA

MNS MRN NWK

Components: LEC REC

### Spring 2027 Semester

#### 4560 Comparative Endocrinology

U 3

Introduction to hormones and hormone action; comparison across vertebrates and invertebrates with an emphasis on how hormones mediate responses to health challenges and changing environments.

Prereq: 2520 or 4520.

### Spring 2027 Semester

#### 5450 Population Ecology

U G 3

Quantitative study of the concepts, methods, and applications of population ecology.

Prereq: 3410 or Grad standing.

Components: LEC

### Spring 2027 Semester

#### 5460 Physiological Ecology

U G 3

Study of the physiological adjustment, tolerance, and acclimatization to the abiotic and biotic environment by animals and plants.

Prereq: 3410; or Grad standing.

Components: LEC

### Spring 2027 Semester

#### 6620 Scientific Writing in Evolution & Ecology: Manuscripts

G 1½

This graduate-level course focuses on improving the scientific writing ability of students. This course will focus specifically on writing scientific manuscripts. During the course, students will learn how to approach the writing process, practice writing, and learn to effectively critique their own writing and that of others.

This course is graded S/U.

### Spring 2027 Semester

#### 6630 Scientific Writing in Evolution & Ecology: Proposals

G 1½

This graduate-level course focuses on improving the scientific writing ability of students. This course will focus specifically on writing scientific proposals. During the course, students will learn how to approach the proposal writing process, practice writing, and learn to effectively critique their own writing and that of others.

This course is graded S/U.

## Engineering Technology

ENGTECH

### Spring 2027 Semester

#### 2345T Building Science: Mechanical Systems

U 3

Principles, equipment, and applications of building mechanical systems with emphasis on energy and resource conservation and sustainability.

Prereq or concur: GenMath 1145T or Math 1148.

### Spring 2027 Semester

#### 2600T Construction Safety & Health

U 2

Health and construction safety awareness; focusing on OSHA 30-hour training and certification, OSHA mandated recordkeeping, and corporate health plan development.

## Environment and Natural Resources

ENR

### Spring 2027 Semester

#### 3200 Environmental and Natural Resources Policy

U 3

This course covers topics such as the constitutional foundations of environmental policy, the role of congress and the executive branch in designing policy and bureaucratic agencies in implementing them, and the courts system as the final arbiter for environmental disputes. It also covers some of the foundational legislation in the U.S. to protect the environment and advance sustainability.

Prereq: Not open to students with credit for 4000.

### Spring 2027 Semester

#### 3333 Silviculture

U 3

Ecological principles and practical applications of methods for controlling forest ecosystem structure and function; prescription of silvicultural practices in the field. One or more all-day field trips.

Prereq: 3321.

### Spring 2027 Semester

#### 5364.02 Avian Wildlife Biology and Management

U G 3

Identification, ecology, and population management of North American birds.

Prereq: 3300 or 3300E; or Grad standing.

Components: LEC LAB

## Educational Studies: Special Education

ESSPED

**Summer 2027 Term**

**8500      Organizational Behavior Management.**

**G            3**

Providing supervised field experience is often one of several job responsibilities required of a Board Certified Behavior Analyst (BCBA). Providing BCBA supervision requires the synthesis of interpersonal, management, problem-solving, and mentoring skills as well as a thorough knowledge of the certification board's field experience standards and evidence-based practices.

**Spring 2027 Semester**

**8832      Theory and Philosophy of Applied Behavior Analysis**

**G            3**

Advanced study of principles of behavior for the development and maintenance of academic and social behaviors.

**Internal Medicine**

**INTMED**

**Spring 2027 Semester**

**7000      Foundation in Medicine I**

**G            2**

Normal human systems and pathophysiology needed for the practice of genetic counseling and working with a healthcare team. This course will cover cell biology, tumor biology, metabolism, musculoskeletal, skin, reproductive, and cardiovascular systems. One hour a week of course will include a practice or case-based learning approach in alignment with content delivered in IntMed 7020 & 7040. Repeatable to a maximum of 6 cr hrs.

**Law**

**LAW**

**Spring 2027 Semester**

**8707      State Constitutional Law and Local Government Law**

**L            3**

State and Local Government addresses major issues facing state and local governments and prepares students to practice law and influence policy at the state and local level. Graduate students in public policy and related fields are welcome to enroll.

**Medicine, College of**

**MEDCOLL**

**Spring 2027 Semester**

**7790      Introduction to Applied Gerontology**

**G M        3**

Provides a foundation for the further study of aging and development of improved aging services. Physiological, cognitive, and social dimensions of aging are considered.

**Medical Laboratory Science**

**MEDLBS**

**Autumn 2026 Semester**

**5050      Medical Laboratory Hematology**

**U G        5**

Theory and application of clinical laboratory procedures used to identify and evaluate the formed elements of the blood and hemostatic mechanisms in health and disease.

Prereq: Admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, Post-baccalaureate certification, in-person MLT Articulation or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4050.

**Autumn 2026 Semester**

**5055      Medical Laboratory Hematology Laboratory**

**U G        2**

Theory and application of clinical laboratory procedures used to identify and evaluate the formed elements of the blood and hemostatic mechanisms in health and disease.

Concur: 4405; and admission to Medical Laboratory Science program, Coordinated Graduate program, or Post-baccalaureate certification program; or permission of instructor.

### Autumn 2026 Semester

#### 5100 Medical Laboratory Microbiology I

U G 3

Introduce medical mycology, parasitology, and virology in the aspects of fundamental epidemiology, disease transmission routes, clinical correlation of microbial diseases, as well as diagnostic tests to identify commonly encountered and clinically important viruses, fungi and parasites.

Prereq: Admission to Medical Laboratory Science Certification, Non-certification (Medical Science), Coordinated Graduate, Post-baccalaureate certification, in-person MLT Articulation or Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4100.

### Autumn 2026 Semester

#### 5105 Medical Laboratory Microbiology I Laboratory

U G 1

The theory and application of clinical laboratory procedures used to identify fungi, parasites, and viruses pathogenic to humans.

Prereq: Admission to Medical Laboratory Science program, Coordinated Graduate program, or Post-baccalaureate certification program; or permission of instructor. Concur: 4405.

### Autumn 2026 Semester

#### 5300 Medical Laboratory Science Clinical Chemistry

U G 5

This course will cover the biochemical basis for diseases commonly diagnosed or monitored using tests performed in the clinical chemistry laboratory. The basics of the methods used to perform the tests will be discussed as well as their interpretation. Techniques used to evaluate the validity of testing will be covered.

Prereq: Admission to the Medical Laboratory Science program, Coordinated Graduate program, Post-baccalaureate certificate program, in-person MLT Articulation program, or the Medical Laboratory Science Minor program; or permission of instructor. Not open to students with credit for 4300.

### Autumn 2026 Semester

#### 5600 Interdisciplinary Studies in Medical Laboratory Science

U G 1 - 5

The application of medical laboratory science in interdisciplinary settings.

Prereq: 5000, 5050, 5100, 5150, 5200, 5250, 5300, 5400 and admission to Medical Laboratory Science Certification program, Coordinated Graduate program, or Post-baccalaureate certificate program; or MEDLBS 5000, 5050, 5100, 5200, 5250, 5300, 5400 and admission to Medical Laboratory Science in-person MLT Articulation program; or permission of instructor. Not open to students with credit for 4600. Repeatable to a maximum of 5 cr hrs or 3 completions. This course is graded S/U.

### Autumn 2026 Semester

#### 5690 Advanced Topics in Medical Laboratory Science

U G 1 - 5

Introduction to skills and resources necessary to enhance professional development

Prereq: Admission to Medical Laboratory Science program, Coordinated Graduate program, or Post-Baccalaureate certificate program; or permission of instructor.

## Microbiology

MICRBIO

### Spring 2027 Semester

#### 4800 Advances in Microbial Biotechnology

U 3

Lecture course covering topics in applied microbial biotechnology, biocatalysis, and chemical biology. The origins of modern biotechnology, impact of microbial chemicals, and significant developments in biotechnology will be discussed.

Prereq: Grade of C- or above in MicrBio 4100; or BioChem 4511 or 5613; or PHR 3200. Not open to students with credit for Phr 4800. Cross-listed in Phr.

## Music

MUSIC

### Spring 2027 Semester

#### 4588 Improvisation Methods

U 2

Introduction to musical improvisation in performance and pedagogy. Improvisation in individual and group contexts.

Prereq: 3425; or permission of instructor.

**Nursing**

NURSING

**Spring 2027 Semester****4890.02H Senior Honors Seminar II****U 2**

Discussion of topics relevant to research and the senior thesis proposal and professional development in nursing.

Prereq: Honors standing and 4890.01H; or permission of instructor.

**Physics**

PHYSICS

**Spring 2027 Semester****1251H Honors Physics: Electricity and Magnetism; Thermal Physics, Waves, and Quantum Physics****U 5**

In depth introduction to: electricity and magnetism including Maxwell's equations, thermodynamics, quantum mechanics.

Prereq: 1250H; or Honors standing and 1250 or 1270; or permission of instructor. Concur: Math 1152, 1161, 1172, 1181H, or 4181H or above.

**Spring 2027 Semester****5401H Honors Advanced Electricity and Magnetism 2****U G 4**

Plane waves, plane waves in matter; physical optics; coherence, interference, diffraction, and dispersion.

Prereq: B- or above in 5400H; or permission of instructor.

**Withdraw Course****Environment and Natural Resources**

ENR

**Spring 2027 Semester****1500 Career Development and Success****U 1**

Professional development course for SENR majors. The purpose of the course is to help students explore career options and next steps, develop career-specific skills such as interviewing, networking, and resume development, and to connect students with professionals in the field.

Prereq: Soph standing or above, and enrollment in ENR major.



## Council on Academic Affairs Approval

<b>New Program</b>	<b>Proposed By</b>	<b>Status</b>	<b>Date Approved</b>
Population Science and Data Integration (PSDI) Research Emphasis	Biomedical Sciences Graduate Program	Approved by CAA	4/22/2026
		No additional approval necessary	

<b>New Program</b>	<b>Proposed By</b>	<b>Status</b>	<b>Date Approved</b>
Integrated Arts and Sciences major	College of Arts and Sciences	Approved by CAA	4/22/2026
		Pending Board of Trustees approval	

<b>New Program</b>	<b>Proposed By</b>	<b>Status</b>	<b>Date Approved</b>
Sport Industry undergraduate minor	Department of Human Sciences	Approved by CAA	4/22/2026
		No additional approval necessary	

<b>New Program</b>	<b>Proposed By</b>	<b>Status</b>	<b>Date Approved</b>
Bachelor of Science in Nuclear Engineering	Department of Mechanical and Aerospace Engineering	Approved by CAA	4/22/2026
		Additional approval necessary	

<b>New Program</b>	<b>Proposed By</b>	<b>Status</b>	<b>Date Approved</b>
PhD program in Medical Physics	Department of Radiation Oncology	Approved by CAA	4/22/2026
		Additional approval necessary	

# Council on Academic Affairs Approval

<b>New Program</b>	<b>Proposed By</b>	<b>Status</b>	<b>Date Approved</b>	4/8/2026
Certificate in Holocaust and Genocide Studies	Department of Sociology	Approved by CAA		
		No additional approval necessary		

<b>New Program</b>	<b>Proposed By</b>	<b>Status</b>	<b>Date Approved</b>	4/8/2026
International Cooperative Graduate Degree Template	Office of International Affairs	Approved by CAA		
		No additional approval necessary		

<b>New Program</b>	<b>Proposed By</b>	<b>Status</b>	<b>Date Approved</b>	4/22/2026
Major program in Assistive Technology and Accessibility	School of Health and Rehabilitation Sciences	Approved by CAA		
		Pending Board of Trustees approval		