

Fall 2020 Course Descriptions as of 04/05/2020 08:11 PM

Information in Browse Course Catalog is subject to change. Information is term specific. Please refer to the appropriate term when searching for course content. Key to Course Descriptions may be found at: http://rcs.registrar.arizona.edu/course_descriptions_key.

Environmental Health Sciences (EHS)

EHS 375: Introduction to Environmental and Occupational Health (3 units)

Description: This course introduces students to physical, chemical and biological hazards found in the environment and health risks associated with workplace and community exposure to them. Risks to special populations and mechanisms of reducing or controlling these risks are discussed.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Summer

Field trip: Self directed field trips required.

Enrollment requirement: Prerequisite or concurrent registration in EPID/CPH 309.

EHS 399: Independent Study (1 - 4 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work.

Grading basis: Alternative Grading: S, P, F

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 399H: Honors Independent Study (1 - 4 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Enrollment requirement: Student must be active in the Honors College.

Honors Course: Honors Course

Honors Course: Honors Course

EHS 418: Introduction to Human Health Risk Assessment (3 units)

Description: The purpose of this course is to enhance students knowledge and skills related to environmental risk assessment, including hazard assessment, exposure assessment, toxicity assessment, and risk characterization.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Equivalent to: CPH 418

Also offered as: ENVS 418

Co-convened with: CPH 518

Course typically offered:

Main Campus: Fall

EHS 420: Environmentally Acquired Illnesses (3 units)

Description: Illnesses related to environmental exposures are on the rise but frequently misdiagnosed due to a lack of understanding of the complexities of multiple hazard exposures and variable health outcomes. This course provides an overview of common and emerging Environmentally Acquired Illnesses (EAI) and explores the multitude of hazards, conditions, and predisposing factors related to human disease. Students will learn how to identify gaps in the current model of patient evaluation and treatment. In addition, they will critique current research design and gain hands on experience in developing a systems approach to understanding, evaluating, and communicating the impact and control of EAI relative to human health.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Co-convened with:

Course typically offered:

Main Campus: Spring

Field trip: None

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 422: Introduction to Occupational Safety (3 units)

Description: Fundamentals of occupational safety, emphasizing regulatory requirements and best-practices targeted to eliminate major sources of occupational injuries. Hazard identification, behavioral safety, and incident investigation will be discussed.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Co-convened with: CPH 522

Course typically offered:

Main Campus: Spring

Enrollment requirement: BIOS 376, EHS 375, or equivalent; or consent of instructor

EHS 425: A Public Health Lens to Climate Change (3 units)

Description: How does a changing environment affect human health? What is the public health role in mitigating and addressing these implications? Why is a public health lens both relevant and necessary? Students in this course will directly interact with these questions and explore the fundamentals of global environmental change with a focus on climate change. Course topics include climate change, impacts on human health, policy development, adaptation and mitigation, health equity, and climate action co-benefits.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall, Spring

Online Campus: Fall, Spring

Field trip: none

EHS 426: Topics in Environmental Justice (3 units)

Description: This course will provide an introduction to environmental justice concepts as they apply to public health. Issues relating to race/ethnicity, gender, social class, environmental policy and law will be used to critically examine environmental health disparities.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:

Co-convened with: CPH 526

Course typically offered:

Main Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 439: Introduction to Environmental Health Policy (3 units)

Description: This course provides an overview of the development, structure, function, and implementation of environmental health policy at local, national, and global scales. Case-examples will provide an in-depth understanding of environmental health policy.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Co-convened with: CPH 539

Recommendations and additional information: Senior standing in other academic program, or relevant experience with instructors approval. (A chemistry and biology course is recommended).

Enrollment requirement: EHS/CPH 375.

EHS 439A: Outbreaks and Environmental Microbiology: Then to Now (3 units)

Description: This course will examine historical and present day outbreaks in regards to the environmental microbiology of pathogens. Different pathogen control interventions that were used to mitigate the outbreaks will also be explored.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Co-convened with: CPH 539A

Course typically offered:

Main Campus: Summer

Online Campus: Summer

Recommendations and additional information: EPID/CPH 309 Introduction to Epidemiology or MIC 205A General Microbiology (strongly recommended) or permission of instructor.

EHS 484: Fundamentals of Industrial and Environmental Health (3 units)

Description: Introduction to the principles of occupational and environmental health, with emphasis on industrial hygiene aspects of recognition, evaluation, and control of environmental and industrial health hazards.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Equivalent to: CE 484, MNE 484, OSH 484, PCOL 484, PHL 484

Also offered as: MNE 484, NSC 484, PCOL 484

Co-convened with: CPH 584

Course typically offered:

Main Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 489: Public Health Preparedness (3 units)

Description: This course will provide the participants a basic knowledge of public health preparedness and response using an all hazards approach: nuclear, biological, chemical, and natural disaster, and an opportunity to apply this content in a mock critical incident event .

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Co-convened with: CPH 589

Course typically offered:

Main Campus: Fall

EHS 491: Preceptorship (1 - 6 units)

Description: Specialized work on an individual basis, consisting of instruction and practice in actual service to a department, program, or discipline. Teaching formats may include seminars, in-depth studies, laboratory work, and patient study.

Grading basis: Alternative Grading: S, P, F

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 2 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

EHS 492: Directed Research (1 - 6 units)

Description: Individual or small group research under the guidance of faculty.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 2 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 493C: Global Experience in Public Health (1 - 3 units)

Description: This course provides a family or community focused public health experience in an international or under-served location working with a local governmental or non-governmental agency to improve the health and well-being of a vulnerable population. The course emphasizes an in-depth, field-based experience.

Grading basis: Alternative Grading: S, P, F

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 2 times.

Also offered as: BIOS 493C, EPID 493C, HPS 493C, PHP 493C, PHPM 493C

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

Home department: Health Promotional Services

EHS 498H: Honors Thesis (3 units)

Description: An honors thesis is required of all students graduating with honors. Students ordinarily sign up for this course as a two-semester sequence. The first semester the student performs research under the supervision of a faculty member; the second semester the student writes an honors thesis.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 3 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

Enrollment requirement: Student must be active in the Honors College.

Honors Course: Honors Course

Honors Course: Honors Course

Writing Emphasis: Writing Emphasis Course

EHS 499: Independent Study (1 - 4 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work.

Grading basis: Alternative Grading: S, P, F

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 499H: Honors Independent Study (1 - 4 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

Enrollment requirement: Student must be active in the Honors College.

Honors Course: Honors Course

Honors Course: Honors Course

EHS 502: Environmental Monitoring Methods (3 units)

Description: Introduction to sampling techniques and analytical methods to measure environmental contamination in the air, water, soils and food. Emphasis on instrument selection and quality control, including documentation, calibration, and sample management.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Equivalent to: PCOL 502

Also offered as: PCOL 502

Course typically offered:

Main Campus: Fall

EHS 510: Physical Exposures (3 units)

Description: Participants will understand the health effects, evaluate exposures, and identify control options available to reduce exposures to physical stressors in the environment. The course focuses on noise, heat stress, vibration, radiation and ergonomics.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Equivalent to: PCOL 510

Also offered as: PCOL 510

Course typically offered:

Main Campus: Spring (odd years only)

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 518: Introduction to Human Health Risk Assessment (3 units)

Description: The purpose of this course is to enhance students knowledge and skills related to environmental risk assessment, including hazard assessment, exposure assessment, toxicity assessment, and risk characterization. Graduate-level requirements include conducting a case study that will require them to collect secondary data in the field.

Grading basis: Regular Grades

Career: Graduate

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| Course Components: | Lecture | Required |
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Equivalent to: CPH 518

Also offered as: ENVS 518

Co-convened with: CPH 418

Course typically offered:

Main Campus: Fall

EHS 519: Special Topics in Environmental Health Sciences (1 - 4 units)

Description: This course addresses special topics in Environmental Health Sciences. The course will promote understanding of current practice, advances in the field and evaluation of environmental health programs and research.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Repeatable: Course can be repeated for a maximum of 8 units.

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: Graduate student standing in the College of Public Health or permission of instructor.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: Illnesses related to environmental exposures are on the rise but frequently misdiagnosed due to a lack of understanding of the complexities of multiple hazard exposures and variable health outcomes. This course provides an overview of common and emerging Environmentally Acquired Illnesses (EAIs) and explores the multitude of hazards, conditions, and predisposing factors related to human disease. Students will learn how to identify gaps in the current model of patient evaluation and treatment. In addition, they will critique current research design and gain hands on experience in developing a systems approach to understanding, evaluating, and communicating the impact and control of EAIs relative to human health.

Career: Graduate

Co-convened with:

Main Campus: Spring

EHS 522: Introduction to Occupational Safety (3 units)

Description: Fundamentals of occupational safety, emphasizing regulatory requirements and best-practices targeted to eliminate major sources of occupational injuries. Hazard identification, behavioral safety, and incident investigation will be discussed. Graduate-level requirements include a written paper evaluating a topical incident pertinent to the state/region, including an analysis of contributing factors and recommendations to prevent future occurrences.

Career: Graduate

Co-convened with: CPH 422

Main Campus: Spring

Recommendations and additional information: EHS/CPH 584 or consent of instructor.

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 525: Global to Local: Environmental Change and Human Health (3 units)

Description: How does a changing environment affect human health? What is the public health role in mitigating and addressing these implications? Students in this course will directly interact with these questions and explore the fundamentals of global environmental change with a focus on climate change. Students will develop a better understanding of the direct and indirect pathways through which climate and the environment influence human health; the mechanisms and strategies employed to manage and address these impacts; and the challenges and opportunities facing public health researchers and practitioners alike.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

EHS 526: Topics in Environmental Justice (3 units)

Description: This course will provide an introduction to environmental justice concepts as they apply to public health. Issues relating to race/ethnicity, gender, social class, environmental policy and law will be used to critically examine environmental health disparities. Graduate-level requirements include additional meetings with the professor. A 10-12 page term paper on a topic and degree of complexity to be determined in conjunction with the professor.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Co-convened with: CPH 426

Course typically offered:

Main Campus: Fall

EHS 535: General and Systems Toxicology (3 units)

Description: Survey of tissue and organ system effects of environmental chemicals. Introduction to adsorption, distribution, metabolism, and elimination of chemicals; toxicology of liver, lung, kidney, central nervous system, skin, reproductive systems, hematopoietic system, and immune system. Introduction to carcinogenesis and developmental toxicology.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Also offered as: CBIO 535, PCOL 535

Course typically offered:

Main Campus: Fall

Recommendations and additional information: Organic chemistry, two semesters of biology and one semester of biochemistry. Undergraduate seniors with consent of instructor.

Home department: Pharmacology & Toxicology

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 539: Introduction to Environmental Health Policy (3 units)

Description: This course provides an overview of the development, structure, function, and implementation of environmental health policy at local, national, and global scales. Case-examples will provide an in-depth understanding of environmental health policy. Graduate-level requirements include: individually written policy paper and responsibility for organizing and leading students in producing group policy papers.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Co-convened with: CPH 439

EHS 539A: Outbreaks and Environmental Microbiology: Then to Now (3 units)

Description: This course will examine historical and present day outbreaks in regards to the environmental microbiology of pathogens. Different pathogens control interventions that were used to mitigate the outbreaks will also be explored. Graduate-level requirements include a more in-depth analysis of topics, more participation in online discussion groups, and additional test questions.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Co-convened with: CPH 439A

Course typically offered:

Main Campus: Summer

Online Campus: Summer

EHS 553: Toxicology and Chemical Exposure (3 units)

Description: Principles of toxicology related to industry and the environment; dose response; mechanisms of toxicity; hazard evaluation principles; toxicology of major classes of industrial and environmental compounds

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Equivalent to: PCOL 553

Also offered as: PCOL 553

Course typically offered:

Main Campus: Spring (even years only)

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 575: Environmental and Occupational Health (3 units)

Description: Course emphasizes health hazard sources, methods to identify & evaluate them, and framework used to effect hazard control. Students will evaluate public health issues, understand research designs, identify and evaluate factors important to the development of monitoring programs.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Repeatable: Course can be repeated a maximum of 2 times.

Course typically offered:

Main Campus: Fall, Spring

Online Campus: Fall, Summer

EHS 580: Integrated Public Health Learning Experience (1 unit)

Description: An analysis of public health cases that integrates core public health knowledge and competencies to determine the best systems, policies and programs for decreasing morbidity and premature mortality.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Also offered as: BIOS 580, EPID 580, HPS 580, PHP 580, PHPM 580

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

Recommendations and additional information: Students must have completed or concurrently finishing their core public health courses and have completed at least 21 total units of course work.

Home department: Public Health and Practice

EHS 583: Environmental & Occupational Diseases (3 units)

Description: Students gain a basic knowledge of occupational and environmental hazards, develop an index of suspicion for the environmental or work-relatedness of a disease, know the essential elements of a screening history, and learn to conduct an effective on-site evaluation of hazards.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 584: Fundamentals of Industrial and Environmental Health (3 units)

Description: Introduction to the principles of occupational and environmental health, with emphasis on industrial hygiene aspects of recognition, evaluation, and control of environmental and industrial health hazards. Graduate-level requirements include a comprehensive paper detailing hazards associated with a particular health hazard.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Equivalent to: CE 584, OSH 584, PCOL 584

Also offered as: NSC 584, PCOL 584

Co-convened with: CPH 484

Course typically offered:

Main Campus: Fall

EHS 585: Public Health Fundamentals for Researchers (3 units)

Description: The fundamental principles of public health are presented for students in any graduate academic program. The course explores theoretical aspects of public health and provides practical application designed to improve understanding and performance of researchers in public health settings. Mastery of course objectives will provide academic graduate students with a clear working knowledge of public health basics.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Lecture Required

Also offered as: BIOS 585, EPID 585, HPS 585

Course typically offered:

Main Campus: Spring

Recommendations and additional information: Completion of an undergraduate degree in a field related to public health.

Field trip: The class will have two required field trips:(1) Evening in Tucson to attend Board of Health meeting; (2) One trip on Saturday to Nogales AZ address globalization issues.

EHS 589: Public Health Preparedness I (3 units)

Description: This course will provide the participants a basic knowledge of public health preparedness and response using an all hazards approach: nuclear, biological, chemical, and natural disaster, and an opportunity to apply this content in a mock critical incident event . Graduate-level expectations include a more in-depth understanding of the course material.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Equivalent to: PHL 589, PHPR 589, PHSC 589

Co-convened with: CPH 489

Course typically offered:

Main Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 591: Preceptorship (1 - 6 units)

Description: Specialized work on an individual basis, consisting of instruction and practice in actual service to a department, program, or discipline. Teaching formats may include seminars, in-depth studies, laboratory work, and patient study.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 2 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Field trip: none

EHS 593C: Global Experience in Public Health (1 - 3 units)

Description: This course provides a population focused public health experience in an international or under-served location working with a local governmental or non-governmental agency to assess and to improve people's health and well-being. The course emphasizes an in-depth field-based experience.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 2 times.

Also offered as: BIOS 593C, EPID 593C, HPS 593C, PHP 593C, PHPM 593C

Course typically offered:

Main Campus: Fall, Spring, Summer 1 and 2

Recommendations and additional information: Permission of instructor.

Home department: Epidemiology and Biostatistics

EHS 599: Independent Study (1 - 6 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 603: Applied Analysis of Environmental Data (3 units)

Description: This course provides an overview to the the unique characteristics of environmentally-related data, and practical experience in analyzing and effectively communicating such data to a scientific audience.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring (even years only)

Recommendations and additional information: Satisfactory completion of at least 1 graduate level statistics or biostatistics course; or permission of instructor

EHS 604: Modeling Exposures to Environmental Hazards (3 units)

Description: Introduction to modeling principles used in environmental health sciences.

Concepts covered include basic environmental fate-and-transport modeling commonly used in exposure modeling and human exposure and intake modeling.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring (odd years only)

Recommendations and additional information: EHS/CPH 584 and BIOS/EPID/CPH 576A, or equivalents; or instructor's consent.

EHS 609: Evaluating Public Health Literature (1 unit)

Description: Concepts for the critical analysis of the scientific literature within public health and the broader field of medicine are reviewed. Topics including understanding the research stream, study design, statistical methodology, and the accurate presentation of results are addressed.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Repeatable: Course can be repeated a maximum of 3 times.

Also offered as: BIOS 609, EPID 609, HPS 609, PHPM 609

Course typically offered:

Main Campus: Fall, Spring

Home department: Health Promotional Services

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 653: Applied Exposure Assessment (3 units)

Description: Students learn processes to develop and implement a comprehensive strategy to anticipate, recognize, and evaluate environmental hazards. Course project involves practicum where students conduct a comprehensive hazard assessment and communicate findings.

Grading basis: Regular Grades

Career: Graduate

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| Course Components: | Laboratory | May Be Offered |
| | Lecture | Required |

Course typically offered:

Main Campus: Spring

Recommendations and additional information: EHS/CPH 502, EHS/CPH 584.

EHS 655: Control of Occupational Exposures (3 units)

Description: Design and evaluation of systems controlling occupational exposures. Emphasis is on industrial ventilation but also includes administrative and personal protective controls. Specific industrial operations and exposure models will be addressed.

Grading basis: Regular Grades

Career: Graduate

| | | |
|---------------------------|------------|----------------|
| Course Components: | Laboratory | May Be Offered |
| | Lecture | Required |

Course typically offered:

Main Campus: Spring (even years only)

Recommendations and additional information: EHS/CPH 502, EHS/CPH 584.

EHS 680: Environmental, Occupational, and Injury Epidemiology (3 units)

Description: This course will examine three fields through lecture, exercises and literature review. It is designed to teach, through practice, the skills of critical thinking, information synthesis, and approaches used to investigate research questions.

Grading basis: Regular Grades

Career: Graduate

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| Course Components: | Lecture | Required |
|---------------------------|---------|----------|

Equivalent to: CPH 680, EPI 680, PHL 680

Course typically offered:

Main Campus: Spring

Recommendations and additional information: BIOS/EPID 576A, EPID 573A; prerequisite or concurrent registration, EPID 573B, BIOS/EPID 576B.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 691: Preceptorship (1 - 6 units)

Description: Specialized work on an individual basis, consisting of instruction and practice in actual service to a department, program, or discipline. Teaching formats may include seminars, in-depth studies, laboratory work, and patient study.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 2 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Field trip: none

EHS 696R: Environmental and Occupational Health Seminar (1 unit)

Description: The development and exchange of scholarly information is best accomplished in small group settings. The seminar will promote critical thinking among students regarding current topics in environmental health and industrial hygiene.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Seminar Required

Repeatable: Course can be repeated a maximum of 5 times.

Course typically offered:

Main Campus: Fall, Spring

EHS 699: Independent Study (1 - 6 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699 or 799.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

EHS 900: Research (1 - 9 units)

Description: Individual research, not related to thesis or dissertation preparation, by graduate students.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

EHS 909: Master's Report (1 - 12 units)

Description: Individual study or special project or formal report thereof submitted in lieu of thesis for certain master's degrees.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated for a maximum of 12 units.

Course typically offered:

Main Campus: Fall, Spring, Summer

EHS 910: Thesis (1 - 6 units)

Description: Research for the master's thesis (whether library research, laboratory or field observation or research, artistic creation, or thesis writing). Maximum total credit permitted varies with the major department.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

EHS 920: Dissertation (1 - 9 units)

Description: Research for the doctoral dissertation (whether library research, laboratory or field observation or research, artistic creation, or dissertation writing).

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.