

2020-2021 PROGRAM GUIDE:

Master of Public Health, Environmental Systems & Human Health

Information in this document is updated annually. Please refer to the document for the year you entered the program. Student resources, policies, and procedures applicable to all School of Public Health graduate students can be found on the SPH website, www.ohsu-psu-sph.org.

Overview

Director: Tawnya Peterson, PhD

ohsu-psu-sph.org/mph-environmental-systems-human-health

The MPH in Environmental Systems & Human Health (ESHH) program offers public health training for students who would like to investigate and remediate environmental impacts on human health. Believing that a healthy environment is a cornerstone of preventive medicine, the goal of the program is to produce graduates who will be able to analyze relationships between human activities, the environment, and human health. Program emphases include environmental (e.g., climate) change and its effect on human health, environmental pathogens, environmental transport, fate and remediation of chemical contaminants, food web bioaccumulation, wastewater treatment, environmental risk assessment and communication, and social justice issues. Within the program, special attention will be given to mediating and modifying the effects of environmental disruptions on the health of vulnerable populations in a culturally competent, ethical manner.

Program Competencies

- Communicate the relationship between environmental systems and human health, particularly in response to a changing climate.
- Analyze how environmental hazards (chemical, physical and biological) interact with natural and built systems, including the mechanisms of their adverse effects on humans.
- Assess and interpret relevant literature in the area of public health and environmental hazards.
- Evaluate the risk of environmental exposures to human populations through the incorporation of exposure, toxicological, and other relevant data into risk assessment methodology.
- Discuss how federal and state regulatory programs, guidelines and authorities impact environmental and occupational health issues.
- Apply ethical principles that govern the practice of environmental risk assessment, management, and communication.
- Specify approaches for assessing, preventing and controlling environmental and occupational hazards that pose risks to human health and safety.
- Integrate, synthesize and apply theory to practice in the context of a research study, policy consequences, or environmental exposure.
- Explain the general mechanisms of toxicity in eliciting a human health effect in response to various environmental and occupational exposures.



MPH Environmental Systems & Human Health Program of Study

Course Number	Course Title	Credits
Core Required Courses		
BSTA 525	Intro to Biostats	4
EPI 512	Epidemiology I	4
ESHH 511	Concepts of Environmental Health	3
HSMP 574	Health Systems Organization	3
PHE 512	Principles of Health Behavior	3
Exam	Certified in Public Health Examination	0; Pass
ESHH 509PE	Practice Experience	4
ESHH 502	Integrative Project	1
Program Required Cou	ırsework (16 Credits)	
UNI 504	Qualitative Methods for Health Professionals	2
ESHH 519	Environmental Health in a Changing World	3
ESHH 529	Environmental Toxicology & Risk Assessment	4
ESHH 521	Occupational Health	4
HSMP 573	Values & Ethics in Health	3
Commonly taken elect	ives (22 Credits)	
	ESHH courses	
ESHH 512	Global & Planetary Health Concepts	3
ESHH 530	Environmental Chemistry	4
ESHH 532	Ecological Public Health	3
	SPH courses	
EPI 513	Epidemiology II (Methods)	4
PHE 511	Foundations of Public Health	3
PHE 517	Community Organizing	3
PHE 519	Introduction to the Etiology of Disease	3
PHE 521	Quantitative Research Design and Analysis	3
	PSU – Environmental Science & Management c	courses*
ESM 552	Environmental Regulation & Non-regulatory Approaches	3
ESM 587	Environmental Justice: Theory and Implication	4
ESM 588	Environmental Sustainability	4
	Occupational Health courses*	
PSY 510	Occupational Safety & Health	3
PSY 550	Occupational Health Psychology	3
PSY 510	Work and Well-Being	3
	Total Credits	60

^{*}Courses outside of the School of Public Health require Special Registration (https://ohsu-psu-sph.org/wp-content/uploads/2020/03/SPH-Registration-Request.pdf)





MPH Environmental Systems & Human Health Sample Course Schedules

Below are sample schedules. Other schedules are possible; always consult your Faculty Advisor regarding your program of study and course selection to determine the schedule that fits best for you. If you receive federal financial aid, it is important to be aware of financial aid requirements when planning your schedule. Federal loan require at least 1/2 time enrollment (5 credits). Please refer to the OHSU's "Financial Aid Explained" and the Standard Enrollment Plan, paying particular attention to summer term, for more information.

Full-time student sample schedule

Year 1				
Fall	Winter	Spring	Summer	
ESHH 511 Cncpts Environ Hlth	BSTA 525 Intro to	HSMP 574 Hlth Syst Org	CPH Exam	
(3 cr.)	Biostats (4 cr.)	(3 cr.)	CHIEXAIII	
Epi 512 Epidemiology I (4 cr.)	PHE Prin Hlth Behvr (3 cr.)	ESHH 529 Env Tox & Risk Assmnt (4 cr.)	Summer Offerings: BSTA 525 Intro to Biostats (4 cr.) EPI 512 Epidemiology I (4 cr.) HSMP 573 Val/Ethcs HIth (3 cr.) HSMP 574 HIth Sys Org (3 cr.)	
ESHH 519 Environ Hlth Changing World (3 cr.)	ESHH 521 Prin Occ Hlth (4 cr.)	Elective (1-4 cr.)	Optional: Elective (1-4 cr)	
Year 2				
Fall	Winter	Spring	Summer	
UNI 504 Qual Mthds	ESHH Practice Experience	ESHH Integrative		
Hlth (2 cr.)	(4 cr.)	Project (1 cr.)		
HSMP 573 Values & Ethics	Floating (1.4 an)	Elective (1-4 cr.)		
in Hlth (3 cr.)	Elective (1-4 cr.)			
Elective (1-4 cr.)	Elective (1-4 cr.)	Elective (1-4 cr.)		

Part-time student sample schedule

Year 1				
Fall	Winter	Spring	Summer	
ESHH 511 Cncpts Environ HIth	BSTA 525 Intro to	HSMP 574 Hlth Syst Org		
(3 cr.)	Biostats (4 cr.)	(3 cr.)	CDH Evam	
Epi 512 Epidemiology I (4 cr.)	PHE Prin Hlth Behvr (3 cr.)	ESHH 529 Env Tox & Risk Assmnt (4 cr.)	CPH Exam	
Year 2				
Fall	Winter	Spring	Summer	
ESHH 519 Envir Hlth Chang Wrld	UNI 504 Qual Mthds	Elective (1-4 cr.)	ESHH Practice Experience	
(3 cr.)	Hlth (2 cr.)	Elective (1-4 cr.)	(4 cr.)	
HSMP 573 Values & Ethics	ESHH 521 Prin Occ Hlth	Elective (1-4 cr.)	Optional: Elective (1-4 cr)	
in Hlth (3 cr.)	(4 cr.)			
Year 3				
Fall	Winter	Spring	Summer	
Elective (1-4 cr.)	Elective (1-4 cr.)	ESHH Integrative Project		
		(1 cr.)		
Elective (1-4 cr.)	Elective (1-4 cr.)	Elective (1-4 cr.)		



Graduate Student Resources, Policies, and Procedures

Policies and procedures applicable to all School of Public Health graduate students can be found on the SPH website, www.ohsu-psu-sph.org. Please review the student policies and procedures listed there, including but not limited to the following sections:

Advising
Academic Standing
Academic Dismissal
Academic Dishonesty
Codes of Conduct
Educational Records Privacy
Minimum Course Grade Requirements
Recognition of Prior Earned Credit
Course Waiver Policy
Incomplete Coursework
Course Approvals (Electives)
Independent Study
International Travel and Coursework
Continuous Enrollment
Leave of Absence
Withdrawal Policy
Time Limits
Student Complaint Procedure
Degree and Certificate Conferral

Resources and support services available to SPH graduate students are listed on the SPH website, www.ohsu-psu-sph.org. Please review the resources listed there.