

2019-20 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 and 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.





PUBLIC HEALTH

MPH: Environmental Systems & Human Health

Course Number	Course Title	Credits
Core Required Co	oursework (22 Credits)	
BSTA 525	Estimation and Hypothesis Testing for Applied Biostatistics	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	Practice Experience	4
ESHH	Integrative Project	1
Program Require	ed Coursework (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	electives (22 Credits)	
ESHH 512	Global & Planetary Health Concepts	3
ESHH 530	Environmental Chemistry	4
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
ESM 552	Environmental Regulation & Non-regulatory Approaches	3
ESM 570	Environmental Education	4
ESM 588	Environmental Sustainability	4
PSY 510	Occupational Safety & Health	3
PSY 550	Occupational Health Psychology	3
PSY 510	Work and Well-Being	3
	Total Credits	60





SCHOOL OF PUBLIC HEALTH

MPH: Environmental Systems & Human Health Recommended Course Sequencing - Always consult your Faculty Advisor regarding your program of study and course selection to determine the schedule that fits best.

Full-time student sample schedule

Year 1			
Fall	Winter	Spring	Summer
ESHH 511 Cncpts Environ Hlth (3 cr.)	BSTA 525 Intro to Biostats (4 cr.)	HSMP 574 Hlth Syst Org (3 cr.)	CPH Exam
Epi 512 Epidemiology I (4 cr.)	PHE Prin Hlth Behvr (3 cr.)	ESHH 529 Env Tox & Risk Assmnt (4 cr.)	
ESHH 519 Environ Hlth Changing World (3 cr.)	ESHH 521 Prin Occ Hlth (4 cr.)	Elective (1-4 cr.)	
Year 2			
Fall	Winter	Spring	Summer
UNI 504 Qual Mthds Hlth (2 cr.)	ESHH Practice Experience (4 cr.)	ESHH Integrative Project (1 cr.)	
HSMP 573 Values&Ethics in HIth (3 cr.)	Elective (1-4 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 Hlth	BSTA 525 Intro to	HSMP 574 Hlth Syst Org	
(3 cr.)	Biostats (4 cr.)	(3 cr.)	CDU Evam
Epi 512 Epidemiology I (4 cr.)	PHE Prin Hlth Behvr (3 cr.)	ESHH 529 Env Tox & Risk	CPH Exam
Epi 312 Epideililology i (4 ci.)		Assmnt (4 cr.)	
Year 2			
Fall	Winter	Spring	Summer
ESHH 519 Envir Hlth Chang Wrld	UNI 504 Qual Mthds	Elective (1-4 cr.)	CPH Exam
(3 cr.)	Hlth (2 cr.)	Liective (1-4 ci.)	CFITEXAIII
HSMP 573 Values&Ethics	ESHH 521 Prin Occ Hlth (4 cr.)	Elective (1-4 cr.)	ESHH Practice
in Hlth (3 cr.)			Experience
			(4 cr.)
Year 3			
Fall	Winter	Spring	Summer
Floative (1.4 or)	Elective (1-4 cr.)	ESHH Integrative Project	
Elective (1-4 cr.)		(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
Grievance Resolution
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.