Required Coursework

	Credits	
MPH Common Core		
PHI 511 (Foundations of Public Health, Autumn)	3	
PHI 512 (Analytical Skills for Public Health I, Autumn)	7	
PHI 513 (Analytical Skills for Public Health II, Winter)	3	
PHI 514 (Determinants of Health, Winter)	3	
PHI 515 (Implementing Public Health Interventions, Spring)	4	
PHI 516 (Public Health Practice, Spring)	3	
ENV H 599 (Field Studies/Practicum)	4	
DEOHS Common Core		
ENV H 502 (Assessing & Managing Risks from Human Exposure to Env. Contaminants, Winter)	4	
ENV H 503 (Adverse Health Effects of Environmental and Occupational Toxicants, Autumn)	4	
ENV H 580 (Env. & Occupational Health Sciences Seminar, Autumn/Winter/Spring)	1	
Degree Specific Course Requirements		
BIOST 512 (Medical Biometry II, Winter)	4	
Choose one of the following:		
BIOST 513 (Medical Biometry III, Spring)		
ENV H 596 (Current Issues in Environmental and Occupational Medicine, Summer) ¹		
Choose one of the following:		
EPI 513 (Epidemiological Methods II, Winter – preferred option for thesis students)		
ENV H 597 (Case Studies in Env. and Occupational Health, Autumn/Winter/Spring) ²		
ENV H 550 (Occupational and Environmental Disease, Spring)	4	
ENV H 564 (Recognition of Health and Safety Problems in Industry, Autumn)		
ENV H 596 (Current Issues in Environmental and Occupational Medicine, Spring)		
ENV H 597 (Case Studies in Environmental and Occupational Health, Autumn/Winter/Spring)		
Elective Courses ³	0-1	
Culminating Experience		
For students who choose to complete a RESEARCH THESIS		
ENV H 583 (Thesis Proposal Preparation, Spring)		
ENV H 700 (Master's Thesis, All Quarters)		
For students who choose to complete a CAPSTONE PROJECT		
ENV H 598 (Degree Program Project/Portfolio, All Quarters)	9	
Total Minimum Credits	68	

- 1. ENV H 596 is offered as a 2-credit course in spring quarter and two, 2-credit modules in summer quarter. Students choosing this option take both the spring and summer offerings for a total of 6 credits.
- 2. ENV H 597 is a 1-credit class. Students choosing this option take four quarters in addition to the required two quarters for a total of 6 quarters/credits.
- 3. Students work with their faculty adviser to identify an additional course to reach or exceed the total minimum credit requirement. Elective courses can be ENV H courses or courses from other prefixes (e.g., EPI, BIOST, GH, etc.).

Additional Requirements

• Students in this degree program are required to complete either a research thesis or a capstone project.

Sample Schedule (Thesis Option)

The schedule below includes <u>non-elective courses only</u>. Students work with their faculty adviser to identify additional elective courses to reach or exceed the total minimum credit requirement. Elective courses can be ENV H courses or courses from other prefixes (e.g., EPI, BIOST, GH, etc.).

	FIRST YEAR	
	Summer Quarter	
	Choose either ENV H 596 (summer) or BIOST 513 (spring)	4 cr.
Non-Course	work Milestones:	
	Autumn Quarter	
PHI 511	Foundations of Public Health	3 cr.
PHI 512	Analytical Skills for Public Health I	7 cr
ENV H 503	Adverse Health Effects of Environmental and Occupational Toxicants	4 cr
ENV H 564	Recognition of Health and Safety Problems in Industry	2 cr
ENV H 580	Environmental and Occupational Health Seminar	1 cr
ENV H 597	Case Studies in Environmental and Occupational Health	1 cr
Non-Course (clinic) proje	work Milestones: Work 1-on-1 with your Initial Faculty Mentor to identify possible the cts	sis and practicum
<u>(ee) p. eje</u>	Winter Quarter	
PHI 513	Analytical Skills for Public Health II	3 cr.
PHI 514	Determinants of Health	3 cr.
BIOST 512	Medical Biometry II	4 cr.
ENV H 502	Assessing & Managing Risks from Human Exposure to Env. Contaminants	4 cr.
	Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter, year 1)	4 cr.
	work Milestones: Continue working with your Faculty Mentor to identify possible thesi cts / Identify a Thesis Adviser by the end of the quarter Spring Quarter	s and practicum
PHI 515	Implementing Public Health Interventions	4 cr.
PHI 516	Public Health Practice	3 cr.
ENV H 550	Occupational and Environmental Disease	4 cr.
	Choose either ENV H 596 (summer) or BIOST 513 (spring)	4 cr.
	Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter)	4 cr.
ENV H 583	Thesis Proposal Preparation	1 cr.
ENV H 700	Master's Thesis	1 cr.
Non-Course	work Milestones: Write thesis proposal and form Thesis Committee / Confirm practicu sociated learning contract	-
	Summer Quarter	
ENV H 596	Current Issues in Environmental and Occupational Medicine	2 cr.
Non-Course	work Milestones: Complete practicum (≥160 hours) / Begin thesis project as outlined in	n thesis proposal
	SECOND YEAR	
ENV H 599	Autumn Quarter Field Studies/Practicum	1
ENV H 599 ENV H 700	Master's Thesis	4 cr.
LINV H /UU		<u>3 cr.</u>
Non-Course work on the (Continued r		4 cr. etc.) / Continue



Winter Quarter			
ENV H 700	Master's Thesis	2 cr.	
	Choose either ENV H 597 (4 additional quarters) or EPI 513 (winter)	4 cr.	
Non-Coursework Milestones: Continue work on thesis project			
Spring Quarter			
ENV H 700	Master's Thesis	3 cr.	

Non-Coursework Milestones: Present at Graduate Student Research Day / Defend and submit thesis / Present practicum at MPH Symposium



Degree Competencies

Upon completion of this degree program, you will be able to:

School of Public Health -- All MPH Students

Profession & Science of Public Health:

- Explain public health history, philosophy and values
- Identify the core functions of public health and the 10 Essential Services
- Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population's health
- List major causes and trends of morbidity and mortality in the US or other community relevant to the school or program
- Discuss the science of primary, secondary and tertiary prevention in population health, including health promotion, screening, etc.
- Explain the critical importance of evidence in advancing public health knowledge

Factors Related to Human Health:

- Explain effects of environmental factors on a population's health
- Explain biological and genetic factors that affect a population's health
- Explain behavioral and psychological factors that affect a population's health
- Explain the social, political and economic determinants of health and how they contribute to population health and health inequities
- Explain how globalization affects global burdens of disease
- Explain an ecological perspective on the connections among human health, animal health, and ecosystem health (e.g., One Health)

Evidence-based Approaches to Public Health:

- Apply epidemiological methods to the breadth of settings and situations in public health practice
- Select quantitative and qualitative data collection methods appropriate for a given public health context
- Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
- Interpret results of data analysis for public health research, policy or practice

Public Health & Health Care Systems:

- Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
- Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels

Planning & Management to Promote Health:

- Assess population needs, assets and capacities that affect communities' health
- Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
- Design a population-based policy, program, project or intervention
- Explain basic principles and tools of budget and resource management
- Select methods to evaluate public health programs

Policy in Public Health:

- Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
- Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
- Advocate for political, social or economic policies and programs that will improve health in diverse populations
- Evaluate policies for their impact on public health and health equity



MPH-Occupational and Environmental Medicine, Thesis Option (Effective Autumn 2022)

Leadership:

- Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
- Apply negotiation and mediation skills to address organizational or community challenges

Communication:

- Select communication strategies for different audiences and sectors
- Communicate audience-appropriate public health content, both in writing and through oral presentation
- Describe the importance of cultural competence in communicating public health content

Interprofessional Practice:

• Perform effectively on interprofessional teams

Systems Thinking:

• Apply systems thinking tools to a public health issue

SPH - All Student Competency

• Recognize the means by which social inequities and racism, generated by power and privilege, undermine health

DEOHS – All Graduate Student Competencies

- Apply the major components of the environmental and occupational health framework (problem formulation, hazard identification, dose-response assessment, exposure assessment, risk characterization, risk communication, risk management, evaluation, stakeholder engagement, and research) in order to address environmental public health problems experienced in the community or work environment
- Use epidemiological and statistical techniques to describe and analyze environmental and occupational health data
- For students choosing the THESIS option only: Formulate hypotheses and design experiments to test such hypotheses aimed at advancing knowledge in environment and health sciences (for students choosing the thesis option only)
- For student choosing the CAPSTONE option only: Identify a current, practical problem in environmental health sciences and collect, integrate and analyze relevant information to produce practical solutions.

DEOHS – MPH in Occupational and Environmental Medicine

- Evaluate injuries and illnesses that are occupationally or environmentally related within the occupational and environmental health regulatory environment and systems
- Apply evidence-based approaches to managing occupational and environmental injuries and diseases
- Recognize, evaluate, and treat human exposures to physical, chemical, or biological hazards at work or in the general environment
- Integrate aspects of surveillance and principles of exposure assessment into primary and secondary prevention of occupational and environmental disease
- Describe occupational health disparities and formulate a plan to mitigate individual and organizational factors in the workplace in order to optimize the health of the worker.

