Required Coursework

	Credits		
MPH Common Core			
PHI 511 (Foundations of Public Health, Autumn)			
Choose one of the following:			
PHI 512 (Analytical Skills for Public Health I, Autumn, 7 cr.)			
OR			
BIOST 511 (Medical Biometry I, Autumn, 4 cr.) AND			
EPI 512 (Epidemiologic Methods I, Autumn, 4 cr.)			
PHI 513 (Analytical Skills for Public Health II, Winter)	3		
PHI 514 (Determinants of Health, Winter)			
PHI 515 (Implementing Public Health Interventions, Spring)			
PHI 516 (Public Health Practice, Spring)			
ENV H 599 (Field Studies/Practicum)	4		
DEOHS Common Core			
ENV H 501 (Foundations of Environmental & Occupational Health, Autumn)			
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)			
ENV H 580 (Env. & Occupational Health Sciences Seminar, Autumn/Winter/Spring)			
Degree Specific Course Requirements			
ENV H 584 (Environmental Health Policy and Practice, Winter)			
Elective Courses ²			
Culminating Experience			
For students who choose to complete a RESEARCH THESIS			
ENV H 583 (Thesis Proposal Preparation, Spring)	1		
ENV H 700 (Master's Thesis, All Quarters)	9		
For students who choose to complete a CAPSTONE PROJECT			
ENV H 598 (Degree Program Project/Portfolio, All Quarters)	9		
Total Minimum Credits	65		

- 1. Three quarters of ENV H 580 are required for a total of 3 credits.
- 2. Student works with their faculty adviser to identify additional 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.).

Additional Requirements

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

Sample Schedule (Capstone 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	
	Autumn Quarter	
PHI 511	Foundations of Public Health	3 cr.
PHI 512	Analytical Skills for Public Health I (7 cr.)	
OR		
BIOST 511	Medical Biometry I (4 cr.)	7-8 cr.
AND		
EPI 512	Epidemiologic Methods I (4 cr.)	
ENV H 501	Foundations of Environmental & Occupational Health	4 cr.
ENV H 503	Adverse Health Effects of Environmental and Occupational Toxicants	4 cr.
	work Milestones: Work 1-on-1 with your Initial Faculty Mentor to identify possible capstone and	
practicum p		
	Winter Quarter	
PHI 513	Analytical Skills for Public Health II	3 cr.
PHI 514	Determinants of Health	3 cr.
ENV H 502	Assessing & Managing Risks from Human Exposure to Env. Contaminants	4 cr.
ENV H 580	Environmental and Occupational Health Seminar	1 cr.
ENV H 584	Environmental Health Policy and Practice	4 cr.
	work Milestones: Continue working with your Faculty Mentor to identify possible capstone and p	racticum
projects		
	Spring Quarter	
PHI 515	Implementing Public Health Interventions	4 cr.
PHI 516	Public Health Practice	3 cr.
ENV H 580	Environmental and Occupational Health Seminar	1 cr.
	work Milestones: Confirm practicum site and complete associated learning contract / Identify Cap	ostone
Adviser and	at least one other capstone committee member	
	Summer Quarter	
Non Comme	No formal coursework	
Non-Course	work Milestones: Complete practicum (≥160 hours) / Start work on capstone project proposal	
	SECOND YEAR	
	Autumn Quarter	
ENV H 580	Environmental and Occupational Health Seminar	1 cr.
ENV H 599	Field Studies/Practicum	4 cr.
ENV H 598	Degree Program Project/Portfolio	3 cr.
	work Milestones: Complete academic work related to practicum (paper, presentation, etc.) / Sub-	mit
capstone pro	oject proposal, begin work on Capstone Report	
	Winter Quarter	
ENV H 598	Degree Program Project/Portfolio	3 cr.
Non-Coursework Milestones: Continue work on Capstone Report		
	Spring Quarter	
ENV H 598	Degree Program Project/Portfolio	3 cr.



Non-Coursework Milestones: Present practicum at MPH Symposium / Complete all capstone requirements including the written Capstone Report, an oral presentation of the project, and an oral examination conducted by your **Capstone Project Committee**

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
- 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
- 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

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 students 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 Environmental Health Sciences

- Assess and contrast the roles and responsibilities of state and federal governments in environmental health policy development and implementation
- Describe the roles of politics, public opinion, and economics in environmental health policy development
- Develop and evaluate strategies and approaches to address environmental health issues
- Assess the magnitude, determinants, and impacts of a community-level environmental health issue
- Develop strategies to communicate about environmental health policy issues for different audiences or sectors, using different media

