## **Required Coursework**

	Credits	
MPH Common Core		
PHI 511 (Foundations of Public Health, Autumn)		
PHI 512 (Analytical Skills for Public Health I, Autumn)		
PHI 513 (Analytical Skills for Public Health II, Winter)		
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)		
DEOHS Common Core		
ENV H 501 (Foundations of Environmental & Occupational Health, Autumn)	4	
<b>ENV H 502</b> (Assessing & Managing Risks from Human Exposure to Env. Contaminants, Winter)		
<b>ENV H 503</b> (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 <sup>2</sup>	≥ 10	
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)		
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.
ENV H 501	Foundations of Environmental & Occupational Health	4 cr.
ENV H 503	Adverse Health Effects of Environmental and Occupational Toxicants	4 cr.
Non-Course	work Milestones: Work 1-on-1 with your Initial Faculty Mentor to identify possible capstone and	
practicum projects		
	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.
Non-Coursework Milestones: Continue working with your Faculty Mentor to identify possible capstone and practicum		
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.
Non-Coursework Milestones: Confirm practicum site and complete associated learning contract / Identify Capstone		
Adviser and at least one other capstone committee member		
	Summer Quarter	
	No formal coursework	
Non-Coursework 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.
Non-Course	work Milestones: Complete academic work related to practicum (paper, presentation, etc.) / Subr	nit
capstone project 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** 

**ENVIRONMENTAL & OCCUPATIONAL HEALTH SCIENCES** UNIVERSITY of WASHINGTON I SCHOOL OF PUBLIC HEALTH

# **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



#### 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

