# Degree Requirements and Competencies for the MPH in Environmental Health Sciences
*(effective summer 2022)*

## Required Coursework

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 511</td>
<td>Foundations of Public Health, Autumn</td>
<td>3</td>
</tr>
<tr>
<td>PHI 512</td>
<td>Analytical Skills for Public Health I, Autumn</td>
<td>7</td>
</tr>
<tr>
<td>PHI 513</td>
<td>Analytical Skills for Public Health II, Winter</td>
<td>3</td>
</tr>
<tr>
<td>PHI 514</td>
<td>Determinants of Health, Winter</td>
<td>3</td>
</tr>
<tr>
<td>PHI 515</td>
<td>Implementing Public Health Interventions, Spring</td>
<td>4</td>
</tr>
<tr>
<td>PHI 516</td>
<td>Public Health Practice, Spring</td>
<td>3</td>
</tr>
<tr>
<td>ENV H 599</td>
<td>Field Studies/Practicum</td>
<td>4</td>
</tr>
</tbody>
</table>

## DEOHS Common Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENV H 501</td>
<td>Foundations of Environmental &amp; Occupational Health, Autumn</td>
<td>4</td>
</tr>
<tr>
<td>ENV H 502</td>
<td>Assessing &amp; Managing Risks from Human Exposure to Environmental Contaminants, Winter</td>
<td>4</td>
</tr>
<tr>
<td>ENV H 503</td>
<td>Adverse Health Effects of Environmental and Occupational Toxicants, Autumn</td>
<td>4</td>
</tr>
<tr>
<td>ENV H 580</td>
<td>Environmental and Occupational Health Sciences Seminar, Autumn/Winter/Spring</td>
<td>3 x 1 = 3¹</td>
</tr>
</tbody>
</table>

## Degree Specific Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV H 584</td>
<td>Environmental Health Policy and Practice, Autumn</td>
<td>4</td>
</tr>
</tbody>
</table>

## Elective Courses²

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

## Culminating Experience

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, BOST, GH, etc.).

### Additional Requirements

- Students in this degree program are required to complete a practicum as part of the MPH common core and either a research thesis or a capstone project as a culminating experience.

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*Department of Environmental & Occupational Health Sciences, School of Public Health, University of Washington • Rev. 3/22/21*
Degree Requirements and Competencies for the MPH in Environmental Health Sciences  
*(effective summer 2022)*

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
Degree Requirements and Competencies for the MPH in Environmental Health Sciences (effective summer 2022)

- 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 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 – Degree Specific Competencies

- 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