Degree Requirements and Competencies for the PhD in Environmental Health Sciences
Individualized Track (effective summer 2022)

Required Coursework

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOST 511</td>
<td>(Medical Biometry I, Autumn)</td>
<td>4</td>
</tr>
<tr>
<td>BIOST 512</td>
<td>(Medical Biometry II, Winter)</td>
<td>4</td>
</tr>
<tr>
<td>EPI 511</td>
<td>(Introduction to Epidemiology, Autumn)</td>
<td>4</td>
</tr>
<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>6</td>
</tr>
<tr>
<td>ENV H 595</td>
<td>(Research Rotation, All Quarters)</td>
<td>2</td>
</tr>
</tbody>
</table>

Individualized Track:
Student works with faculty adviser to design a course of study tailored to their research interests and career goals. Must include a minimum of 10 credits of ENV H courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV H 583</td>
<td>(Thesis Proposal Preparation, Spring)</td>
<td>1</td>
</tr>
<tr>
<td>ENV H 800</td>
<td>(Doctoral Dissertation, All Quarters)</td>
<td>27</td>
</tr>
</tbody>
</table>

Total Minimum Credits: 90

1. Six quarters of ENV H 580 are required for a total of 6 credits.
2. Students who enter the program with a previous master’s degree are required to do two rotations of 3 credits each for a total of 6 credits. Students who enter the program without a master’s degree are required to do three rotations of 3 credits each for a total of 9 credits.
3. 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 a minimum of two research rotations (see footnote #2 above).
- Pass a qualifying exam, typically at the end of their first year of study.
- Pass a general exam.
- Research, prepare, defend, and submit a dissertation.
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Degree Competencies

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

**School of Public Health -- All MS Students**

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

**DEOHS -- MS in Environmental Health Sciences**

- 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

**DEOHS -- PhD in Environmental Health Sciences**

- Conceive, develop, conduct, and document original research that advances knowledge in the field of environmental health sciences

*Department of Environmental & Occupational Health Sciences, School of Public Health, University of Washington • Rev. 3/22/21*