Occupational and Environmental Health, M.S.

Requirements

The Master of Science in occupational and environmental health requires 38-43 s.h. of graduate credit. The degree program is offered with three options—the M.S. in occupational and environmental health (38 s.h.) without a subprogram, the M.S. with an agricultural safety and health subprogram (42 s.h.), or the M.S. with an industrial hygiene subprogram (43 s.h.).

M.S. Without Subprogram

The Master of Science with a major in occupational and environmental health without a subprogram requires a minimum of 38 s.h. and includes the following coursework.

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEH:4240</td>
<td>Global Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>OEH:5010</td>
<td>Occupational and Environmental Health Seminar</td>
<td>1</td>
</tr>
<tr>
<td>OEH:5620</td>
<td>Occupational Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH:6100</td>
<td>Essentials of Public Health</td>
<td>2</td>
</tr>
<tr>
<td>CPH:7270</td>
<td>Principles of Scholarly Integrity: Public Health</td>
<td>1</td>
</tr>
<tr>
<td>EPID:4400</td>
<td>Epidemiology I: Principles</td>
<td>3</td>
</tr>
<tr>
<td>OEH:4540</td>
<td>Statistics for Experimenters</td>
<td>3</td>
</tr>
<tr>
<td>BIOS:4120</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
</tbody>
</table>

At least 6 s.h. from these:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEH:4260</td>
<td>Global Water and Health</td>
<td>3</td>
</tr>
<tr>
<td>OEH:4310</td>
<td>Occupational Ergonomics: Principles</td>
<td>3</td>
</tr>
<tr>
<td>OEH:4510</td>
<td>Injury and Violence Prevention</td>
<td>3</td>
</tr>
<tr>
<td>OEH:5410</td>
<td>Occupational Safety</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6110</td>
<td>Rural Health and Agricultural Medicine</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6510</td>
<td>Environmental and Occupational Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6710</td>
<td>Human Toxicology and Risk Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Credit earned in elective coursework and the thesis completes the 38 s.h. required for the degree. Students work with their advisor to select courses appropriate for their professional goals.

Thesis

A thesis is required. Students may earn a maximum of 6 s.h. for the thesis.

M.S. with Agricultural Safety and Health Subprogram

The program prepares students for careers in education, health care, insurance, and agribusiness as specialists in agricultural safety and health.

The Master of Science with a major in occupational and environmental health with an agricultural safety and health subprogram requires a minimum of 42 s.h. and includes the following coursework.

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEH:4240</td>
<td>Global Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>OEH:5010</td>
<td>Occupational and Environmental Health Seminar</td>
<td>1</td>
</tr>
<tr>
<td>OEH:5410</td>
<td>Occupational Safety</td>
<td>3</td>
</tr>
<tr>
<td>OEH:5620</td>
<td>Occupational Health</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6110</td>
<td>Rural Health and Agricultural Medicine</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6120</td>
<td>Current Topics in Agriculture and Rural Health (taken three times for 1 s.h. each)</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6710</td>
<td>Human Toxicology and Risk Assessment</td>
<td>3</td>
</tr>
<tr>
<td>OEH:7040</td>
<td>Preceptorship in Occupational and Environmental Health</td>
<td>1</td>
</tr>
<tr>
<td>CPH:6100</td>
<td>Essentials of Public Health</td>
<td>2</td>
</tr>
<tr>
<td>CPH:7270</td>
<td>Principles of Scholarly Integrity: Public Health</td>
<td>1</td>
</tr>
<tr>
<td>EPID:4400</td>
<td>Epidemiology I: Principles</td>
<td>3</td>
</tr>
<tr>
<td>OEH:4540</td>
<td>Statistics for Experimenters</td>
<td>3</td>
</tr>
<tr>
<td>BIOS:4120</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended Elective Courses

This is a recommended list of elective coursework; however, any occupational and environmental health course (prefix OEH) may be taken as an elective.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEH:4260</td>
<td>Global Water and Health</td>
<td>3</td>
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<tr>
<td>OEH:4310</td>
<td>Occupational Ergonomics: Principles</td>
<td>3</td>
</tr>
<tr>
<td>OEH:4510</td>
<td>Injury and Violence Prevention</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6420</td>
<td>Methods in Exposure Science</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6431</td>
<td>Assessing Noise Hazards</td>
<td>1</td>
</tr>
</tbody>
</table>
OEH:6432  Assessing Nonionizing Radiation Hazards  1
OEH:6433  Assessing Ionizing Radiation Hazards  1
OEH:6440  Control of Occupational Hazards  3
OEH:6510  Environmental and Occupational Epidemiology  3
OEH:6520  Injury Epidemiology  3
OEH:6720  Advanced Toxicology  4
CPH:4200  Agriculture, Food Systems, and Sustainability  3

Approved Elective Courses From Other Departments
Courses not on this list may be used as elective credit with advisor approval.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBH:4105</td>
<td>Introduction to Health Promotion and Disease Prevention</td>
<td>3</td>
</tr>
<tr>
<td>CBH:5235</td>
<td>Community-Based Participatory Research</td>
<td>3</td>
</tr>
<tr>
<td>CBH:5305</td>
<td>Evaluation: Approaches and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CBH:6220</td>
<td>Health Communication Campaigns</td>
<td>3</td>
</tr>
<tr>
<td>EPID:5600</td>
<td>Introduction to Epidemiology Data Management and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EPID:6400</td>
<td>Epidemiology II: Advanced Methods</td>
<td>4</td>
</tr>
<tr>
<td>ISE:3400</td>
<td>Human Factors</td>
<td>3</td>
</tr>
</tbody>
</table>

Thesis
A thesis is required. Students may earn a maximum of 4 s.h. for the thesis.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
</table>

M.S. with Industrial Hygiene Subprogram
The program prepares students for careers in industrial hygiene as well as the broad field of occupational and environmental health. Career opportunities are available in health and safety departments of industries; in consulting firms; in academic institutions; and in local, state, and federal public health agencies.

Students choose either the thesis (research option) or nonthesis (internship option). Those that select the thesis option conduct a research project and write a thesis. Those that select the nonthesis option complete an internship.

The Master of Science with a major in occupational and environmental health with an industrial hygiene subprogram requires a minimum of 43 s.h. and includes the following coursework.

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>All of these (22 s.h.):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OEH:4540</td>
<td>Statistics for Experimenters</td>
<td>3</td>
</tr>
<tr>
<td>OEH:5010</td>
<td>Occupational and Environmental Health Seminar</td>
<td>1</td>
</tr>
<tr>
<td>OEH:5620</td>
<td>Occupational Health</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6420</td>
<td>Methods in Exposure</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6440</td>
<td>Control of Occupational Hazards</td>
<td>3</td>
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<tr>
<td>OEH:6710</td>
<td>Human Toxicology and Risk Assessment</td>
<td>3</td>
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<tr>
<td>EPID:4400</td>
<td>Epidemiology I: Principles</td>
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<tr>
<td>CPH:6100</td>
<td>Essentials of Public Health</td>
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</tr>
<tr>
<td>CPH:7270</td>
<td>Principles of Scholarly Integrity: Public Health</td>
<td>1</td>
</tr>
<tr>
<td>At least 12 s.h. from these:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OEH:4240</td>
<td>Global Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>OEH:4310</td>
<td>Occupational Ergonomics: Principles</td>
<td>3</td>
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<td>OEH:4510</td>
<td>Injury and Violence Prevention</td>
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<td>OEH:5410</td>
<td>Occupational Safety</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6431</td>
<td>Assessing Noise Hazards</td>
<td>1</td>
</tr>
<tr>
<td>OEH:6432</td>
<td>Assessing Nonionizing Radiation Hazards</td>
<td>1</td>
</tr>
<tr>
<td>OEH:6433</td>
<td>Assessing Ionizing Radiation Hazards</td>
<td>1</td>
</tr>
<tr>
<td>OEH:6450</td>
<td>Aerosol Technology</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6510</td>
<td>Environmental and Occupational Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>OEH:6520</td>
<td>Injury Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Thesis or Nonthesis Option

Thesis (Research Option)
Research Project and Thesis
Completion of a research project and thesis is required. A maximum of 6 s.h. is allowed for thesis credit in OEH:7000.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>

Electives

The thesis option students complete additional elective coursework to earn at least 43 s.h. required for the major. Students work with their advisor to select courses most appropriate for their professional goals.

Nonthesis (Internship Option)
Internship and Internship Report
Completion of an internship and an internship report is required. A maximum of 3 s.h. is allowed for internship credit in OEH:7050. Students are required to complete a minimum 150-hour internship.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEH:7050</td>
<td>Occupational and Environmental Health Internship</td>
<td>0.3</td>
</tr>
</tbody>
</table>

**Electives**

Nonthesis option students complete additional elective coursework to earn at least 43 s.h. required for the major. Students work with their advisor to select courses most appropriate for their professional goals.