Public Health M.P.H. (Concentration in Environmental Health Sciences)

Degree Requirements: 45 Credit Hours

Degree Admission Requirements

Regular
- Completion of an application in SOPHAS.
- Completion of a Bachelor’s degree from an accredited institution.
- Minimum cumulative undergraduate grade point average (GPA) of 2.75 (4.0 scale).
- Official scores on the Graduate Record Examination (GRE).
- TOEFL scores are required for international applicants.
- A resume that includes the following:
  - educational experiences,
  - professional goals and objectives,
  - work history,
  - professional experiences, memberships and/or participation in professional organizations, and
  - experiences in public health programs.
- Statement of purpose (500-1000 words) that conveys the applicant’s reasons for pursuing graduate study in public health/environmental health sciences and how admission into the program relates to the applicant’s professional aspirations.
- Three letters of reference.

Provisional
Applicants may be admitted on a provisional basis based upon the evaluation of their application materials. Provisional admission is for applicants who do not satisfy full admission requirements or applicants who require prerequisite coursework prior to entering into a particular program study. NOTE: Prerequisite undergraduate course work may be required. Contact the Division Director in the Jiann-Ping Hsu College of Public Health for complete information.

Course Requirements

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<tr>
<th>Public Health Core Courses</th>
<th>Credit Hours</th>
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<tr>
<td>PUBH 5520G Introduction to Public Health</td>
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<tr>
<td>PUBH 6532 Environmental Health</td>
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<tr>
<td>PUBH 6533 Epidemiology</td>
<td>3</td>
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<tr>
<td>PUBH 6534 Health Policy and Management</td>
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<tr>
<td>PUBH 6535 Social and Behavioral Sciences and Public Health</td>
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<td>PUBH 6541 Biostatistics</td>
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<table>
<thead>
<tr>
<th>Environmental Health Sciences Courses</th>
<th>Credit Hours</th>
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<tr>
<td>ENVH 7231 Air Quality</td>
<td>3</td>
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<tr>
<td>ENVH 7232 Water Quality</td>
<td>3</td>
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<tr>
<td>ENVH 7233 Environmental Exposure and Impact Assessment</td>
<td>3</td>
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<td>ENVH 7239 Public Health Laboratory</td>
<td>3</td>
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<tr>
<td>ENVH 7234 Environmental Toxicology</td>
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M.P.H. - Environmental Health Sciences Concentration Competencies

At the completion of the M.P.H. degree program all Environmental Health Sciences students will be able to:

Cross-Cutting Competencies for the MPH Degree

- Demonstrate effective written and oral skills for communicating with different audiences in the context of professional public health activities. (Communication and Informatics)
- Use information technology to access, evaluate, and interpret public health data. (Communication and Informatics)
- Describe the roles of history, power, privilege and structural inequality in producing health disparities. (Diversity and Culture)
- Explain how professional ethics and practices relate to equity and accountability in diverse community settings. (Diversity and Culture)
- Develop public health programs and strategies responsive to the diverse cultural values and traditions of the communities being served. (Diversity and Culture)

MPH Program Competencies in Environmental Health

- Describe major environmental health hazards (physical, chemical, and biological), and assess their genetic, physiologic, and socio-economic impacts on vulnerable and susceptible populations with special emphasis on rural and underserved communities.
- Apply research ethics and current research principles, including hypothesis development, experimental design, and current research methodology, to the qualitative and quantitative measurement and analysis of environmental health hazards.
- Apply the outcomes of environmental monitoring and environmental impact assessments to prevent, mitigate and/or forecast future exposures to environmental hazards and utilize this information to support or advocate for environmental health policy development.
- Apply current health risk assessment methods, utilized by federal, state, and local regulatory programs, and non-governmental guidelines and authorities directed toward management of environmental hazards and provide technical assistance and leadership to address the concerns of communities including environmental justice and equity.
- Apply current research methodology for community based intervention studies, assessing exposure to environmental factors as well as for the identification, quantification, and understanding of potential adverse effects on human health and ecosystems that might result from complex exposure to environmental stressors.
- Communicate environmental health hazards and associated health outcomes to community, stakeholders and professional audiences through oral and written communication and community-based intervention studies.

Advisement

Jiann-Ping Hsu College of Public Health
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