Epidemiology M.P.H.

Degree Requirements: 45 Credit Hours

Advising
Jiann-Ping Hsu College of Public Health
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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:
  a. educational experiences,
  b. professional goals and objectives,
  c. work history,
  d. professional experiences, memberships and/or participation in professional organizations, and
  e. experiences in public health programs.
- Three letters of reference.
- Statement of purpose (500-1000 words) that conveys the applicant’s reasons for pursuing graduate study in public health/epidemiology and how admission into the program relates to the applicant’s professional aspirations.

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.

Degree Requirements

Public Health Core Courses (18 Credit Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 6541</td>
<td>Biostatistics for Biostatistics &amp; Epidemiology Majors</td>
<td>4</td>
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<tr>
<td>PUBH 5520G</td>
<td>Introduction to Public Health</td>
<td>2</td>
</tr>
<tr>
<td>PUBH 6532</td>
<td>Environmental Health</td>
<td>3</td>
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<tr>
<td>PUBH 6533</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 6534</td>
<td>Health Policy and Management</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 6535</td>
<td>Social and Behavioral Sciences and Public Health</td>
<td>3</td>
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Epidemiology Courses (21 Credit Hours)

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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>EPID 7131</td>
<td>Epidemiology of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>EPID 7230</td>
<td>Social Epidemiology and Health Equity</td>
<td>3</td>
</tr>
<tr>
<td>EPID 7233</td>
<td>Public Health Surveillance</td>
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Guided Electives 3

Practicum and Culminating Experience (6 Credit Hours)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PUBH 7790</td>
<td>Practicum in Public Health</td>
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<tr>
<td>PUBH 7991</td>
<td>Public Health Capstone Research Project</td>
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Total Credit Hours 45

M.P.H. - Epidemiology Concentration Competencies

Upon completion of the M.P.H. Epidemiology Program students will be able to:

- Analyze a public health problem in terms of magnitude, person, and time in rural and urban settings.
- Describe populations by the following: race, ethnicity, culture, societal/educational/professional backgrounds, age, gender, religion, disability, and sexual orientation.
- Design surveillance for a public health issue.
- Identify surveillance data needs.
- Implement new or revise existing surveillance systems.
- Explain key findings from a surveillance system.
- Design surveillance systems to include groups subject to health disparities or other potentially underrepresented groups.
- Apply current knowledge of disease etiology for use in guiding the practice of epidemiology.
- Explain the importance of epidemiology for informing scientific, ethical, economic and political discussion of health issues.
- Apply principles of good ethical and legal practices as they relate to study design and the collection, maintenance, use and dissemination of epidemiologic data.
- Demonstrate management of data from surveillance, investigations, or other sources.
- Analyze data from epidemiologic investigations, studies, and surveillance.
- Demonstrate use of standard population categories or subcategories when performing data analysis with special emphasis on the identification of health disparities and promotion of health equity.
- Summarize results of analysis of epidemiologic data.
- Draw conclusions based on the results of analysis of epidemiologic data, including making causal inference on the basis of the principles of causation.
- Apply the basic terminology and definitions of epidemiology for the investigation of acute and chronic health conditions or other adverse outcomes in a population.
- Explain the use of laboratory resources to support epidemiologic activities.
- Explain how determinants of health affect public health practice.
- Produce written and oral reports and presentations that communicate necessary information to professional audiences, policy makers and the general public.
- Evaluate the strengths and limitations of epidemiologic research findings.
- Explain the different uses of basic study designs and selection of variables used in public health.
- Apply principles of informatics, including data collection, processing, and analysis, in support of public health practice.
• Demonstrate use of specific sociocultural factors in a population or community for the interpretation of epidemiologic findings.
• Design epidemiologic investigations using languages and approaches tailored to the targeted population or community.
• Demonstrate the basic principles of risk communication.
• Recommend evidence-based interventions and control measures in response to epidemiologic findings.
• Evaluate public health programs at the regional, state, local, or tribal level.
• Prepare proposals, in whole or in part, to obtain funding for epidemiologic activities.