Public Health M.P.H. (Concentration in Biostatistics)

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:
  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/biostatistics 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

<table>
<thead>
<tr>
<th>Public Health Core Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 5520G Introduction to Public Health</td>
<td>2</td>
</tr>
<tr>
<td>PUBH 6532 Environmental Health</td>
<td>3</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>
<td>3</td>
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<tr>
<td>PUBH 6535 Social and Behavioral Sciences and Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Biostatistics Courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 6135 Topics of Inference in Biostatistics I</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 6136 Topics of Inference in Biostatistics II</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 6331 Regression Analysis in Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 6332 Experimental Design in Biostatistics</td>
<td>3</td>
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<tr>
<td>BIOS 6531 Categorical Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 7231 Clinical Trials Methodology</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 7544 Data Management for Biostatistics</td>
<td>4</td>
</tr>
</tbody>
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Select one of the following guided electives: 3

BIOS 7090 Selected Topics in Biostatistics
BIOS 7131 Survival Analysis
BIOS 7331 Multivariate Analysis in Biostatistics
BIOS 7431 Statistical Issues in Drug Development
BIOS 7535 Data Analysis with SAS

Practicum and Culminating Experience

| PUBH 7530 Integrated Capstone Experience                       | 3            |
| PUBH 7790 Practicum in Public Health                           | 3            |

Total Credit Hours 45

M.P.H. - Biostatistics Concentration Competencies

At the completion of the M.P.H. degree program all Biostatistics 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 Biostatistics

- Provide the biostatistical components of the design of a public health or biomedical experiment by: clarifying the research objectives or questions; determining data and endpoints to be collected appropriate for the objectives; translating the objectives into biostatistical questions via hypothesis testing or confidence interval frameworks; determining the appropriate sample size; and writing the statistical analysis section of the experiment.
- Apply appropriate statistical analysis methods using SAS to analyze both categorical and quantitative data.
- Develop written and oral reports to communicate effectively to research investigators pivotal aspects of a study, including its design, objectives, data, analysis methods, results, and conclusions ensuring that results and conclusions are valid and reliable and address the research objectives.
- Create a collaborative environment for working on written and oral reports and developing critical thinking skills.
- Describe key concepts and theory underlying biostatistical methodology used in probability and inferential, analytical, and descriptive statistics.

Advisement

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