2022-2023 Curriculum Guide for Master of Public Health degree program with a specialization in EPIDEMIOLOGY

The Master of Public Health (MPH) degree program is designed to provide students with the knowledge and skills for general and specialized applied public health practice, both in the public sector and in private sector careers related to population health. It includes courses within public health’s foundation disciplines of biostatistics, environmental health science, epidemiology, health behavior & health promotion, and health services management and policy. This broad training is complemented by the more in-depth course work within the specialization including an Applied Practice Experience and Integrative Learning Experience.

Students admitted to the MPH degree program are assigned a faculty advisor who will provide guidance throughout the program. This document serves as a resource to be used by the student and the advisor in planning a program with a specialization in Epidemiology (EPI), but is not inclusive of all important degree, college, and university requirements. All students are expected to be familiar with the College of Public Health (CPH) Graduate Student Handbook: http://cph.osu.edu/students/graduate/handbooks, the Graduate School Handbook http://www.gradsch.ohio-state.edu/ and the CPH competencies: https://go.osu.edu/cphcompetencies.

PROGRAM OF STUDY

The MPH-EPI curriculum consists of a minimum of 45 credits organized into five curricular domains:

1. Foundation courses in areas of knowledge basic to public health (12 credits)
2. EPI Specialization courses (22-25 credits)
3. Approved Electives (3-6 credits)
4. Applied Practice Experience (2 credits)
5. Integrative Learning Experience Seminar & Integrative Learning Experience (3 credits)

**MPH Integrated Foundational curriculum** † (12 credits)

Every student in the MPH-EPI program must take the following courses in areas of knowledge basic to public health:

- PUBHTLH 6001 Methods in Quantitative Data Analysis 4 credits
- PUBHLTH 6002 History, Values and Essential Services of the U.S. Public Health System 2 credits
- PUBHLTH 6003 Methods in Public Health Planning and Evaluation 2 credits
- PUBHLTH 6004 Essentials of Population Health 4 credits

**Required Courses in the Specialization** (22-25 credits)

- PUBHBIO 6211 Applied Biostatistics II 3 credits
- PUBHBIO 6270 Introduction to SAS for Public Health Students 2 credits
- PUBHEPI 6411 Biological Basis of Public Health 3 credits
- PUBHEPI 6442 Social Epidemiology 3 credits
- PUBHEPI 6431 Design & Implementation of Health Surveys 3 credits
- PUBHEPI 7410 Epidemiology II & Lab 4 credits
- PUBHEPI 7430 Epidemiology III 4 credits

One applied biostatistics course. Choose from: PUBHBIO 6250, 7220, 7255, 7230, 7235 3 credits

^Required for students who do not have an MD, DVM, or equivalent clinical degree.

****Questions regarding the student’s program of study should be directed to the advisor****
### Electives (3-6 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBHEPI 5411</td>
<td>Outbreak Investigations</td>
<td>3</td>
</tr>
<tr>
<td>PUBHEPI 5412</td>
<td>Global Epidemiology of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>PUBHEPI 5438</td>
<td>Cardiovascular Disease Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBHEPI 6415</td>
<td>Nutrition in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBHEPI 6432</td>
<td>Injury Epidemiology</td>
<td>2</td>
</tr>
<tr>
<td>PUBHEPI 6433</td>
<td>Psychiatric Epidemiology</td>
<td>2</td>
</tr>
<tr>
<td>PUBHEPI 6434</td>
<td>Tuberculosis: A Public Health Issue</td>
<td>2</td>
</tr>
<tr>
<td>PUBHEPI 6435</td>
<td>Chronic Disease Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBHEPI 6436</td>
<td>Infectious Disease Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBHEPI 6437</td>
<td>Cancer Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBHEPI 6439</td>
<td>Genetic Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBHEPI 6440</td>
<td>Reproductive and Perinatal Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>

‡Not offered 2022/2023

### Applied Practice Experience

- PUBHLTH 7189  Applied Practice Experience  2 credits

### Integrative Learning Experience

- PUBHEPI 7998  Integrative Learning Experience Seminar  1 credit
- PUBHLTH 7998  Integrative Learning Experience  2 credits

### Sample Curriculum Plan for the Master of Public Health in Epidemiology

This is one option. Other options that are consistent with curriculum guide are possible. However, students who want to deviate from the proposed plan below are advised to consult their advisor to ensure the logistical feasibility of their proposed plan.

#### Year 1

**Autumn**
- PUBHLTH 6001 ‡
- PUBHLTH 6002 ‡
- PUBHBIO 6270
- PUBHEPI 6431

Methods in Quantitative Data Analysis
- History, Values and Essential Services of the U.S. Public Health System
- Introduction to SAS for Public Health students
- Design & Implementation of Health Surveys

<table>
<thead>
<tr>
<th></th>
<th>4 credits</th>
<th>2 credits</th>
<th>AU</th>
<th>AU</th>
<th>AU, SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 credits</td>
<td>3 credits</td>
<td>AU</td>
<td>AU</td>
<td>AU, SP</td>
</tr>
</tbody>
</table>

**Spring**
- PUBHLTH 6003 ‡
- PUBHLTH 6004 ‡
- PUBHEPI 7410
- PUBHBIO 6211

Methods in Public Health Planning and Evaluation
- Essentials of Population Health
- Epidemiology II & Lab
- Applied Biostatistics II

<table>
<thead>
<tr>
<th></th>
<th>2 credits</th>
<th>4 credits</th>
<th>SP</th>
<th>SP</th>
<th>SP, AU, SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 credits</td>
<td>3 credits</td>
<td>AU</td>
<td>AU</td>
<td>AU, SP</td>
</tr>
</tbody>
</table>

**Summer**
- PUBHLTH 7189

Applied Practice Experience

<table>
<thead>
<tr>
<th></th>
<th>2 credits</th>
<th>ANY</th>
</tr>
</thead>
</table>

#### Year 2

**Autumn**
- PUBHEPI 6442
- PUBHEPI 7430
- PUBHEPI 7998
- PUBHBIO ******

Social Epidemiology
- Epidemiology III
- Integrative Learning Experience Seminar
- An applied biostatistics course

<table>
<thead>
<tr>
<th></th>
<th>3 credits</th>
<th>4 credits</th>
<th>1 credit</th>
<th>3 credits</th>
<th>AU</th>
<th>AU</th>
<th>AU, SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 credits</td>
<td>3 credits</td>
<td>AU</td>
<td>AU</td>
<td>AU, SP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Spring**
- PUBHEPI 6411
- PUBHLTH 7998

Biological Basis of Public Health
- Integrative Learning Experience

|  | 3 credits | 2 credits | 3 credits | SP | ANY | AU, SP |

### Grade Policy

In addition to the general Graduate School requirements of a cumulative grade point average of 3.0 or higher, students must meet specific college policies regarding grades in Foundation and specialization courses. Students should familiarize themselves with Section 11 of the College of Public Health Graduate Student Handbook.

### College of Public Health - Office of Academic Programs and Student Services (OAPSS)

OAPSS staff are available to provide assistance with College, Graduate School and University policies and procedures. (614) 292-8350/100 Cunz Hall/1841 Neil Ave/Columbus, Ohio/ 43210/cph.osu.edu

****Questions regarding the student’s program of study should be directed to the advisor****