2019-2020 Curriculum Guide for Master of Public Health degree program with a specialization in ENVIRONMENTAL HEALTH SCIENCES

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 as environmental health specialists. 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 a practicum and culminating 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 Environmental Health Sciences (EHS), 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: http://go.osu.edu/cphcompetencies.

**PROGRAM OF STUDY**

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

1. Foundation courses in areas of knowledge basic to public health (15 credits)
2. EHS Specialization courses (19 credits)
3. Approved Electives (6 credits)
4. Practicum (2 credits)
5. Culminating project (3 credits)

**Public Health Foundation Courses** (15 credits)

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

**Biostatistics**

PUBH BIO 6210 Design and Analysis of Studies in the Health Sciences 3 credits

**Environmental Health Sciences**

PUBHEHS 6315 Advanced Environmental Health Science 3 credits

**Epidemiology**

PUBHEPI 6410 Principles of Epidemiology 3 credits

**Social and Behavioral Sciences**

PUBHHP 6510 Preventing Disease and Promoting Health through Behavioral Science 3 credits

**Health Services Administration**

PUBHHMP 6610 Introduction to Health Care Organization 3 credits

**Required Courses in the EHS Specialization** (19 credits)

PUBHEHS 5315 Principles of Toxicology 3 credits
PUBHEHS 5325 Principles of Occupational Health Science 3 credits
PUBHEHS 6320 Global Health and Environmental Microbiology 3 credits
PUBHEHS 7365 Principles of Risk Assessment 3 credits
PUBHEHS 7380 Exposure Science Monitoring Techniques 3 credits
PUBHEHS 6390 Major Human Diseases in Global Public Health 3 credits
PUBHEHS 7899 Seminar in Environmental Health Sciences 1 credit

****Questions regarding the student’s program of study should be directed to their advisor****
Electives  *(Choose courses to bring the total credits in the program to 45 credits)*  

Additional electives may be selected from other courses offered by the EHS Division, by the College of Public of Health, or elsewhere in the University with approval of the advisor. Other Division of EHS courses and the following are examples:

- **PUBHEHS 5320** Climate Change and Human Health  
  3 credits  
- **PUBHEHS 5335** Ecology of Infectious Diseases  
  3 credits  
- **PUBHEHS 5340** Air Contaminants and Public Health  
  3 credits  
- **PUBHEHS 5395** Engineering Design for Environmental Health  
  3 credits  
- **PUBHEHS 7193** Individual Studies in Environmental Health Sciences  
  1-4 credits  
- **PUBHEHS 7360** Water Contamination: Sources and Health Impact  
  3 credits  
- **PUBHEHS 7375** Quantitative Microbial Risk Analysis Modeling  
  3 credits  
- **PUBHEHS 7546** Advanced Food Microbiology II  
  2 credits  
- **PUBHEHS 8340** Molecular Techniques for EHS  
  3 credits  
- **PUBHEPI 7411** Epidemiology in Environmental Health  
  3 credits  
- **PUBHLTH 6189.01** Field Experience in Public Health  
  1-6 credits  
- **PUBHLTH 6189.02** Field Experience in Global Public Health  
  1-6 credits  

**Practicum**

- **PUBHLTH 7189** Practicum in Public Health  
  2 credits  

**Culminating Project**

- **PUBHLTH 7998** Culminating Project in Public Health  
  3 credits  

**Sample Curriculum Plan for the Master of Public Health in Environmental Health Sciences**

*(THIS IS ONE OPTION, STUDENTS ARE ADVISED TO CONSULT WITH THEIR ADVISOR FOR OTHER OPTIONS)*

| Year 1 | AUTUMN | PUBHEHS 6315 | Advanced Environmental Health Science | 3 credits | AU |
|        |        | PUBHEHS 6320 | Global Health and Environmental Microbiology Design | 3 credits | AU |
|        |        | PUBHBIO 6210 | Design and Analysis of Studies in the Health Sciences I | 3 credits | AU, SP |
|        |        | PUBHEPI 6410 | Principles of Epidemiology | 3 credits | AU |
| Year 1 | SPRING | PUBHEHS 5315 | Principles of Toxicology | 3 credits | SP |
|        |        | PUBHEHS 6390 | Major Human Diseases in Global Public Health | 3 credits | SP |
|        |        | PUBHEHS 7365 | Principles of Risk Assessment | 3 credits | SP |
|        |        | PUBHEHS 7899 | Seminar in Environmental Health Sciences | 1 credit | AU, SP |
|        |        | ELECTIVES | 6 credits | ANY |
| Year 1 | SUMMER | PUBHLTH 7189 | Practicum | 2 credits | ANY |
| Year 2 | AUTUMN | PUBHEHS 5325 | Principles of Occupational Health Science | 3 credits | AU |
|        |        | PUBHEHS 7380 | Exposure Science Monitoring Techniques | 3 credits | AU |
|        |        | PUBHMP 6610 | Introduction to Health Care Organization | 3 credits | ANY |
|        |        | PUBHHBP 6510 | Preventing Disease &Promoting Health through Beh Sci | 3 credits | AU, SP |
|        |        | PUBHLTH 7998 | Culminating Project in Public Health | 3 credits | 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

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