

## 2021-2022 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 an applied practice experience 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. MPH Integrated Foundational curriculum (12 credits)
2. EHS Specialization courses (22 credits)
3. Approved Electives (6 credits)
4. Applied Practice Experience (2 credits)
5. Integrative Learning Experience (3 credits)

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

Every student in the MPH-EHS program must take the following MPH Integrated Foundational curriculum:

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	Foundations of Health Systems and Policy with Applied Integrative Lab	4 credits

#### **Required Courses in the EHS Specialization** (22 credits)

PUBHEHS 5315	Principles of Toxicology	3 credits
PUBHEHS 5325	Principles of Occupational Health Science	3 credits
PUBHEHS 6310	Principles of Environmental Health Science	3 credits
PUBHEHS 6320	Global Health and Environmental Microbiology	3 credits
PUBHEHS 6390 or PUBHEPI 6411	Major Human Diseases in Global Public Health or Biological Basis of Public Health	3 credits
PUBHEHS 7365	Environmental and Human Health Risk Assessment	3 credits
PUBHEHS 7380	Exposure Science Monitoring Techniques	3 credits
PUBHEHS 7899	Seminar in Environmental Health Sciences	1 credit

#### **Electives** (Choose courses to bring the total credits in the program to 45 credits)

\*\*\*\*\*Questions regarding the student's program of study should be directed to their advisor\*\*\*\*\*

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

PUBHEHS 5335	Ecology of Infectious Diseases	3 credits
PUBHEHS 5340	Air Contaminants and Public Health	3 credits
PUBHEHS 5345	Modeling Transmission & Control of Infectious Diseases in Humans & Animals	3 credits
PUBHEHS 5395	Engineering Design for Environmental Health	3 credits
PUBHEHS 6325	Climate Change and Human 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 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

### **Applied Practice Experience**

PUBHLTH 7189	Applied Practice Experience	2 credits
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### **Integrative Learning Experience**

PUBHLTH 7998	Integrative Learning Experience in Public Health	3 credits
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### **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)

<b>Year 1 Autumn</b>	PUBHLTH 6001†	Methods in Quantitative Data Analysis	4 credits	AU
	PUBHLTH 6002†	History, Values and Essential Services of the U.S. Public Health System	2 credits	AU
	PUBHEHS 6310	Principles of Environmental Health Science	3 credits	AU
	PUBHEHS 6320	Global Health and Environmental Microbiology Design	3 credits	AU
<b>Year 1 Spring</b>	PUBHLTH 6003†	Methods in Public Health Planning and Evaluation	2 credits	SP
	PUBHLTH 6004†	Essentials of Population Health	4 credits	SP
	PUBHEHS 5315	Principles of Toxicology	3 credits	SP
	PUBHEHS 6390 or PUBHEPI 6411	Major Human Diseases in Global Public Health or Biological Basis of Public Health	3 credits	SP
	PUBHEHS 7365	Environmental and Human Health Risk Assessment	3 credits	SP
	PUBHEHS 7899	Seminar in Environmental Health Sciences	1 credit	SP
<b>Year 1 Summer</b>	PUBHLTH 7189	Applied Practice Experience	2 credits	ANY
<b>Year 2 Autumn</b>	PUBHEHS 5325	Principles of Occupational Health Science	3 credits	AU
	PUBHEHS 7380	Exposure Science Monitoring Techniques	3 credits	AU
	PUBHLTH 7998	Integrative Learning Experience in Public Health	3 credits	ANY
	ELECTIVES		6 credits	ANY

†PUBHLTH 6001-6004: Students will be enrolled by The College of Public Health Office of Academic Programs and Student Services for these courses.

### **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](http://cph.osu.edu)

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