



2017-2018 Curriculum Guide for PhD degree program with a specialization in ENVIRONMENTAL HEALTH SCIENCES

The Doctor of Philosophy (PhD) degree requires a significant program of study and research that qualifies the recipient to conduct independent high quality research and communicate complex information in public health. In addition, the PhD graduate will contribute to the advancement of the field of knowledge. The emphasis is on mastery of the field and particularly on the acquisition of research skills as a basis for original work.

Students admitted to the PhD degree program are assigned faculty advisors who will provide guidance throughout the program. Students are encouraged to get to know their advisor and meet with him/her at least twice each semester. This document serves as a resource to be used by the student and the advisor in planning the program of study with a specialization in Environmental Health Sciences. All students are expected to be familiar with the College of Public Health (CPH) *Graduate Student Handbook* (available at <http://cph.osu.edu/students/graduate/handbooks> that includes information about PhD requirements, and with the *Graduate School Handbook* (available at <http://www.gradsch.ohio-state.edu/>).

PROGRAM OF STUDY

The PhD program in Environmental Health Sciences requires a minimum total of 90 credits or 60 credits beyond a master's degree. Some of the specified courses may have been included in a prior master's degree. A maximum of 30 credits of master's degree work may be applied to PhD requirements if approved by the advisor.

Major Field

Required Core Courses:

PUBHTLH 6010 ⁺ Essentials of Public Health	3 credits
PUBHBIO 6210 Design and Analysis of Studies in the Health Sciences I	<i>credits count in Research Methods</i>
PUBHEPI 6410 Principles of Epidemiology	3 credits

*Not required for students with a CEPH accredited MPH

Required Specialization Courses:

PUBHEHS 5315 Principles of Toxicology	3 credits
PUBHEHS 5325 Principles of Occupational Health Sciences	3 credits
PUBHEHS 6315 Advanced Environmental 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 8340 Molecular Techniques	3 credits
PUBHEHS 8899 Doctoral Seminar in Environmental Health Sciences	1, 1, 1 (3 credits total)

Research Methods (24 credits)

Required Courses:

PUBHBIO 6210 Design and Analysis of Studies in the Health Sciences I	3 credits
PUBHBIO 6211 Design and Analysis of Studies in the Health Sciences II	3 credits

Select one of three courses:

PUBHBIO 6212 Regression Methods for the Health Sciences	3 credits
PUBHBIO 7220 Applied Logistic Regression	3 credits
PUBHBIO 7230 Applied Longitudinal Data Analysis	3 credits

Select one of three courses:

PUBHEPI 6401	Health Data Sources & Uses	3 credits
PUBHEPI 6431	Design & Implementation of Health Surveys	3 credits
PUBHEPI 7411	Environmental Epidemiology	3 credits

Additional Research Methods courses

9 credits

In consultation with their faculty advisors, students select an additional 9 credits of research methods courses

Electives (6 credits)

Students choose 6 credits of electives in consultation with their advisors. Courses chosen should complement the student's major, minor, and research methods. Electives may be taken any term available, however, students are discouraged from registering for more than 15 credits in Autumn and Spring or more than 9 credits in Summer.

PUBHEHS 5320	Climate Change and Human Health	3 credits
PUBHEHS 7193	Individual Studies in Environmental Health Sciences	1-4 credits
PUBHEHS 7194	Group Studies in Environmental Health Sciences	1-3 credits
PUBHEHS 7325	Advanced Toxicology	3 credits
PUBHEHS 7546	Advanced Food Microbiology II	2 credits
PUBHEHS 7360	Water Contamination: Sources and Health Impact	2 credits
PUBHEHS 7370	Human Health Risk Assessment of Microbial Agents	3 credits
PUBHEHS 7899	Seminar in Environmental Health Science	1 credit
PUBHEPI 6437	Cancer Epidemiology	3 credits
PUBHEPI 7411	Epidemiology in Environmental Health	3 credits
PUBHLTH 6189.02	Field Experience in Global Public Health	1-6 credits
ENTMLGY 5605	Human Health Entomology	3 credits

Minor Cognate Field (12 credits)

Additional credits are required in a minor cognate field that is relevant to the student's research interests. Depending on the student's interests, the minor area may occur within the College of Public Health (e.g., biostatistics or epidemiology) or within other disciplines (e.g., chemistry, microbiology, engineering). Students select their minor cognate and courses with advisor approval.

Dissertation (minimum 21 credits)

PUBHLTH 8998	Pre-Candidacy Research and
PUBHLTH 8999	Post-Candidacy Research Dissertation

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 Core and specialization courses. Students should familiarize themselves with Section 11 of the College of Public Health Graduate Student Handbook.

Office of Academic Programs and Student Services (OAPSS)

OAPSS staff are available to provide assistance with College, Graduate School and University policies and procedures. Students can make an appointment with a staff member in OAPSS by calling (614) 292-8350. OAPSS address: 100 Cunz Hall/1841 Neil Ave/Columbus, Ohio/ 43210/cph.osu.edu