

2015-2016 Curriculum Guide for PhD degree program with a specialization in ENVIRONMENTAL HEALTH SCIENCES

The 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 (24 credits)

Required 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 |

Epidemiology Requirement:

| | | |
|--------------|----------------------------|-----------|
| PUBHEPI 6410 | Principles of Epidemiology | 3 credits |
|--------------|----------------------------|-----------|

Select one of two courses:

| | | |
|--------------|---|-----------|
| PUBHEPI 6401 | Health Data Sources & Uses | 3 credits |
| PUBHEPI 6431 | Design & Implementation of Health Surveys | 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 >15 (Autumn/Spring) or >9 (Summer) total credits.

| | | |
|-----------------|---|-------------|
| 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 | 3 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 |
| PUBHLTH 6189.01 | Field Experience in Public Health | 1-6 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 (24 credits)

| | |
|--------------|--|
| PUBHLTH 8998 | Pre-Candidacy Research |
| PUBHLTH 8999 | and 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