2017-2018 Curriculum Guide for PhD degree program with a specialization in EPIDEMIOLOGY

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 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 the program of study with a specialization in Epidemiology.

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 total number of credits required to earn the PhD with a specialization in Epidemiology is 90. Students are expected to enter the program with a master’s degree or equivalent. With approval of the student’s advisor and Advisory Committee, up to 30 credits of appropriate master’s level course work can be counted toward the PhD. Additional requirements for courses and distribution of credits are provided below. Students should work closely with their advisor to develop a tentative curriculum plan during the first term of their enrollment. In collaboration with their advisor, students are encouraged to form their Advisory Committee during their first year in the PhD program.

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<th>Major Field</th>
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Required Core Courses:
- PUBHTLH 6010* Essentials of Public Health  3 credits
- PUBHBIO 6211 Design and Analysis of Studies in the Health Sciences II  credits count in Research Methods
- PUBHEPI 7410 Epidemiology II  credits count in Research Methods
*Not required for students with a CEPH accredited MPH

Required Specialization Courses:
- PUBHEPI 6411^ Biological Basis of Public Health  3 credits
- PUBHEPI 7410 Epidemiology II & Lab  4 credits
- PUBHEPI 7430 Epidemiology III  4 credits
- PUBHEPI 8430 Epidemiology IV  4 credits
- PUBHEPI 8899.03 Introductory Doctoral Seminar  2 credits (2 semesters)
- PUBHEPI 8899.01 Doctoral Seminar: Research Methods  2 credits (2 semesters)
- PUBHEPI 8899.02 Doctoral Seminar: Teaching Methods  2 credits (1 semester)
- PUBHHBP 8899.02 Grant Writing Seminar  2 credits (2 semesters)
^Required for students who do not have an MD, DVM, or equivalent clinical degree

Suggested Electives: (Choose courses to bring the total credits for the major field to 30 credits)
- PUBHEPI 5411 Outbreak Investigations  3 credits
- PUBHEPI 5412 Infectious Diseases in the Developing World  3 credits
- PUBHEPI 5438 Cardiovascular Disease Epidemiology  3 credits
- PUBHEPI 6415 Nutrition in Public Health  3 credits
- PUBHEPI 6432 Injury Epidemiology  2 credits
- PUBHEPI 6439 Genetic Epidemiology  3 credits
- PUBHEPI 6440 Reproductive and Perinatal Epidemiology  3 credits
- PUBHEPI 6441 Women’s Health Issues  3 credits
- PUBHEPI 7411 Environmental Epidemiology  3 credits
- PUBHEPI 7413 Molecular Epidemiology of Cancer  3 credits
Required Courses:
PUBHBIO 6211 Design & Analysis of Studies in the Health Sciences II 3 credits
PUBHBIO 7220 Applied Logistic Regression 3 credits
PUBHBIO 7230 Applied Longitudinal Data Analysis 3 credits
PUBHBIO 7235 Applied Survival Analysis 3 credits
PUBHEPI 6431 Design & Implementation of Health Surveys 3 credits
PUBHEPI 7431 Epidemiological Methods 3 credits
STAT 6450 Applied Regression Analysis 4 credits

Suggested Research Methods Electives: (Choose courses to bring the total credits for research methods to 30 credits)
Other courses as appropriate and approved with advisor

PUBHBIO 7215 Design and Analysis of Clinical Trials 2 credits
PUBHBIO 7240 Applied Statistical Analysis with Missing Data 3 credits
PUBHBIO 7225 Survey Sampling Methods 3 credits
PUBHBIO 7255** Introduction to Causal Inference in Health Science Research
PUBHEPI 5420 Infectious Disease Modeling in Humans and Animals 3 credits
PUBHEPI 5421 Mathematics of Infectious Disease Dynamics 3 credits
PUBHEPI 7412 Principals & Procedures for Human Clinical Trials 3 credits
PUBHEPI 8412 Design and Analysis of Group-Randomized Trials 3 credits
SOCIOL 8651 Hierarchical Linear Models 3 credits
SOCIOL 8607 Causal Modeling 3 credits

Minor Cognate Field (15 credits)
In collaboration with the advisor and Advisory Committee, students will choose courses to bring the total credits for the minor cognate field to 15 credits.

Dissertation (15 credits)
PUBHLTH 8998/8999 Pre-Candidacy and Post-Candidacy Dissertation Credits 15 credits

Note that a maximum of 20 credits of dissertation work can be counted toward the degree.

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 grade policies. 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. To make an appointment with a staff member in OAPSS calling (614) 292-8350/100 Cunz Hall/1841 Neil Ave/Columbus, Ohio/ 43210/cph.osu.edu