2015-2016 Curriculum Guide for PhD degree program with a specialization in EPIDEMIOLOGY

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 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 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.

Tentative Curriculum Plan

MAJOR FIELD (30 credits)

Required 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 5438 Cardiovascular Disease 3 credits
- PUBHEPI 6415 Nutrition in Public Health 3 credits
- PUBHEPI 6432 Injury Epidemiology 2 credits
- PUBHEPI 6433 Psychiatric Epidemiology 2 credits
- PUBHEPI 6434 Tuberculosis: a Public Health Issue 2 credits
- PUBHEPI 6435 Chronic Disease Epidemiology 3 credits
- PUBHEPI 6436 Infectious Disease Epidemiology 3 credits
- PUBHEPI 6437 Cancer Epidemiology 3 credits
- PUBHEPI 6439 Genetic Epidemiology 3 credits

1Not offered 2015/2016

‡Not offered 2015/2016
## RESEARCH METHODS (30 credits)

### Required Courses:
- PUBHBIO 6211  Design & Analysis of Studies in the Health Sciences II  3 credits
- 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
- §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 8230  Advanced Longitudinal Data Analysis  3 credits
- PUBHBIO 8235  Advanced Regression Modeling of Time-to-Event Data  3 credits
- 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

§Not offered 2015/2016

## MINOR COGNATE FIELD (15 credits)

In collaboration with your advisor and Advisory Committee, choose courses to bring the total credits for your 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. 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