



2022-2023 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 pursuing the PhD degree complete didactic and research courses. In addition, PhD students must successfully complete and pass a PhD Qualifying Exam, a PhD Candidacy Exam, Dissertation and Final Examination. Due to the expanded depth and scope of content and research, it typically takes a minimum of four years to complete the program requirements to earn the PhD degree. Graduates are prepared for teaching/research faculty positions in higher education and other positions in various public and private sectors.

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*: <http://cph.osu.edu/students/graduate/handbooks> the *Graduate School Handbook* <http://www.gradsch.ohio-state.edu/> and the CPH competencies <https://go.osu.edu/cphcompetencies>.

PROGRAM OF STUDY

The minimum 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.

Major Field

Required Foundation Courses:

PUBHTLH 6010+ Essentials of Public Health	3 credits
PUBHBIO 6210+ Applied Biostatistics I	3 credits
PUBHBIO 6270+ Introduction to SAS for Public Health students	2 credits
PUBHEPI 6410+ Principles of Epidemiology	3 credits

**Not required for students with a CEPH-accredited master's degree*

Required Specialization Courses:

PUBHEPI 6411^	Biological Basis of Public Health	3 credits
PUBHEPI 6442	Social Epidemiology	3 credits
PUBHEPI 7410	Epidemiology II & Lab	4 credits
PUBHEPI 7430	Epidemiology III	4 credits
PUBHEPI 8430	Epidemiology IV	4 credits
PUBHEPI 8899.01	Professional Skills for Public Health Doctoral Students	1 credit
PUBHEPI 8899.02	Doctoral Seminar: Teaching Methods	2 credits (1 semester)
PUBHEPI 8899.03	Epidemiology – History, Social Context, and Ethics	1 credit
PUBHEPI 8899.04	Research Questions and Study Design in Epidemiology	1 credit
PUBHEPI 8899.05	Application of Advanced Methods in Epidemiology	1 credit
PUBHHBP 8899.02	Grant Writing Seminar	2 credits (2 semesters)

^Required for students who do not have an MD, DVM, or equivalent clinical degrees

Suggested Electives: *(Choose courses to bring the total credits for the major field to 30 credits)*

PUBHEPI 5411 Outbreak Investigations	3 credits	‡PUBHEPI 6439 Genetic Epidemiology	3 credits
PUBHEPI 5412 Global Epidemiology of Infectious Disease	3 credits	‡PUBHEPI 6440 Reproductive & Perinatal Epi	3 credits
PUBHEPI 5438 Cardiovascular Disease Epidemiology	3 credits	PUBHEPI 6441 Epidemiology of Women's Health	3 credits
‡PUBHEPI 6415 Nutrition in Public Health	3 credits	‡PUBHEPI 7411 Epidemiology in Environmental Health	3 credits
PUBHEPI 6432 Injury Epidemiology	2 credits	‡PUBHEPI 7413 Molecular Epidemiology of Cancer	3 credits
‡PUBHEPI 6433 Psychiatric Epidemiology	2 credits	PUBHEPI 8411 Epidemiology of Obesity	3 credits
‡PUBHEPI 6434 Tuberculosis: A Public Health Issue	2 credits	‡PUBHEPI 8413 Molecular Epidemiology of Infectious Disease	3 credits
‡PUBHEPI 6435 Chronic Disease Epidemiology	3 credits	‡HISTORY 5300 Contextualizing the History of HIV/AIDS in Africa	3 credits
‡PUBHEPI 6436 Infectious Disease Epidemiology	3 credits	PUBHHMP 7686 Qualitative Methods for Health Research	3 credits
PUBHEPI 6437 Cancer Epidemiology	3 credits	VETPREV 7721 Epidemiology of Zoonotic Disease	3 credits
		VETPREV 8782 Veterinary Clinical Epidemiology	3 credits

‡Not offered 2022-2023

Research Methods (30 credits)

Required Courses:

PUBHBIO 6211	Applied Biostatistics 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
PUBHBIO 7240	Applied Statistical Analysis with Missing Data	3 credits
PUBHBIO 7255	Introduction to Causal Inference in Health Sciences Research	3 credits
PUBHEPI 6431	Design & Implementation of Health Surveys	3 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 7225	Survey Sampling Methods	3 credits
PUBHEHS 5345	Modeling Transmission & Control of Infectious Diseases in Humans & 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

‡Not offered 2022-2023

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.

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