EPIDEMIOLOGY AND BIOSTATISTICS: EPIDEMIOLOGY, PHD

The mission of the PhD program in Epidemiology is to train independent researchers in the development and application of epidemiologic methods and to prepare them for positions as scientific leaders in academia and industry. The PhD is a research degree; it indicates the highest attainable level of scholarship, and a commitment to a research career. The PhD does not represent merely the accumulation of course credits, but rather the development and completion of a well-designed and conscientious program of scientific investigation that makes a unique contribution to the field of epidemiology.

For more information: https://www.med.upenn.edu/ggeb/ggeb-courses.html

View the University's Academic Rules for PhD Programs (http://catalog.upenn.edu/pennbook/academic-rules-phd/).

Required Courses

Code	Title	Course Units
Coursework		
EPID 5340	Qualitative Methods in the Study of Health, Disease and Medical Systems	
EPID 6000	Data Science for Biomedical Informatics	
EPID 7010	Introduction to Epidemiologic Research	
Ethics Elective		
Additional Electives		
Research		
EPID 6990	Lab Rotation	
EPID 8990	Pre-Dissertation Lab Rot	
EPID 9950	Dissertation	
EPID 7000	Doctoral Seminar in Epidemiology	
EPID 7020	Advanced topics in Epidemiologic Research	
BSTA 6300	Statistical Methods and Data Analysis I	
BSTA 6320	Statistical Methods for Categorical and Survival Data	
HPR 6080	Applied Regression Analysis for Health Policy Research	
Career Development Research Workshop		

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2024 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.

Sample Plan of Study

Code	Title	Course Units
Year 1		
Fall		
EPID 7010	Introduction to Epidemiologic Research	
EPID 6000	Data Science for Biomedical Informatics	
BSTA 6300	Statistical Methods and Data Analysis I [1]	
EPID 6990	Lab Rotation	
Career Development Workshop Series		
Spring		
EPID 7020	Advanced topics in Epidemiologic Research	
HPR 6080	Applied Regression Analysis for Health Policy Research [2]	
BSTA 6320	Statistical Methods for Categorical and Survival Data [1]	
EPID 6990	Lab Rotation	
Advanced Elective [3]		
Career Development Workshop Series		
Summer		
EPID 6990	Lab Rotation	
Advanced Elective (requires special permission)		
Year 2		
Fall		
EPID 5340	Qualitative Methods in the Study of Health, Disease and Medical Systems	
EPID 6990	Lab Rotation [2]	
or EPID 8990	Pre-Dissertation Lab Rot	
Ethics Course OR MSCE Bioethics Workshop		
Advanced Elective		
Spring		
EPID 7000	Doctoral Seminar in Epidemiology	
EPID 6990	Lab Rotation [2]	
or EPID 8990	Pre-Dissertation Lab Rot	
Advanced Elective		
Year 3		
Fall		
EPID 8990	Pre-Dissertation Lab Rot	
Advanced Elective		
Spring		
EPID 8990	Pre-Dissertation Lab Rot	
Advanced Elective		
Year 4 and Beyond		
EPID 9950	Dissertation	

1 For those desiring a more advanced statistical analysis background, BSTA 6300 and BSTA 6320 are recommended if you have previously completed coursework in calculus through multivariable calculus and linear algebra. The permissions of the instructors are required to take these courses.

2 HPR 6080 is required for those not taking BSTA 6300 and BSTA 6320.

[3] Any electives taken in the summer required prior authorization by the heads of the PhD Curriculum Committee.