

Epidemiology PhD Plan of Study  
Effective Fall 2020

**PhD Core Curriculum**

Course Number	Course Title	S.H.	Semester(s) Offered
CPH:6100	Essentials of Public Health	2 s.h.	Fall
BIOS:4120	Introduction to Biostatistics	3 s.h.	Fall, Spring, Summer**
EPID:4400	Epidemiology I: Principles	3 s.h.	Fall, Spring, ** Summer**
EPID:5241	Statistical Methods in Epidemiology	4 s.h.	Spring
EPID:5600	Introduction to Epi Data Management and Analysis	3 s.h.	Fall
EPID:5610	Intermediate Epi Data Analysis with SAS and R	3 s.h.	Spring
EPID:6050	Research in Epidemiology	3 s.h.	Fall, Spring, Summer
EPID:6100	Writing a Grant Proposal	3 s.h.	Fall
EPID:6400	Epidemiology II: Advanced Methods	4 s.h.	Spring
CPH 7270	Principles of Scholarly Integrity: Public Health	1 s.h.	Fall (0 s.h.), Spring (1 s.h.)
EPID:7400	Epidemiology III: Theories	3 s.h.	Fall odd years
PATH:8133	Introduction to Human Pathology*	4 s.h.	Fall
<i>Choose 1 of the following 2 courses:</i>			
BIOS:6310	Introductory Longitudinal Data Analysis	3 s.h.	Fall
BIOS:6210	Applied Survival Analysis	3 s.h.	Spring
<i>Choose 1 of the following 2 courses:</i>			
HHP:3500	Human Physiology	3 s.h.	Fall, Spring, Summer**
MPB:5153	Graduate Physiology	4 s.h.	Fall

\*Students with a strong biosciences background may choose to substitute PATH:5270 Pathology and Molecular Medicine for this course if it fits better with their training plan. This is an advanced course that requires a strong foundation in molecular biology and related disciplines, but may be suitable for some students.

\*\*Offered online only during this semester.

**Additional Requirements**

- EPID:5925 Epidemiology Journal Club (0 s.h. – offered during fall and spring); 5 semesters of registration/attendance required during the duration of the PhD program.
- Epidemiology Seminar (offered fall and spring); students are expected to achieve at least 80% attendance at the Department of Epidemiology Seminar during each semester of enrollment.

**Research Interest Area Electives (23-25 s.h.)**

Students are encouraged to choose one of the recommended Research Interest Area Plans of Study. In consultation with their advisor, a student may propose a modified Research Interest Area of the same name. If there is not a good fit with one of the recommended Plans, in consultation with their advisor a student may propose a new Research Interest Area Plan of Study. The student must prepare a proposed name for the new Plan and a brief rationale. Modified and new Research Interest Areas will be reviewed and approved by majority decision by the Plan of Study committee.

**Additional Epidemiology Department Electives. ( 3 s.h.)**

In addition, the student must select at least 3 s.h. from Epidemiology course offerings (EPID) outside the student's research interest area. EPID:7200 Teaching in Epidemiology (3 s.h., offered in the fall and spring) is a strongly recommended elective for students interested in a career in academia.

**Dissertation Requirement (10-18 s.h.)**

EPID:7000 Dissertation

10-18

**Total Credit Hours for the PhD in Epidemiology: 78 s.h.**

Infectious Disease Research Interest Area Electives  
Recommended Plan of Study

Course #	Course Name	S.H.	Semester(s) offered*
Students interested in infectious disease epidemiology will take the following 2 courses:			
EPID:6550	Epidemiology of Infectious Diseases	3 s.h.	Fall
EPID:5560	Introduction to Molecular Epidemiology	3 s.h.	Spring
In addition, students will choose at least 17 s.h. from the following recommended courses. Students should select courses in consultation with their advisor to reflect their research interest area (e.g. microbiology, immunology, vaccinology, entomology, ecology, behavioral health, pharmacoepidemiology, or clinical trials):			
EPID:5550	Diagnostic Microbiology for Epidemiology**	3 s.h.	Spring (online)
EPID:5570	Zoonotic Diseases**	3 s.h.	Summer
EPID:6560	Hospital Epidemiology**	2 s.h.	Spring odd years
EPID:6900	Design of Intervention and Clinical Trials**	3 s.h.	Fall
EPID:6570	Infectious Causes of Chronic Disease**	3 s.h.	Spring even years
GEOG:4150	Environment and Health: GIS Applications	3 s.h.	Fall
MICR:6267	Graduate Viruses and Human Disease	4 s.h.	Fall
MICR:6247	Graduate Immunology and Human Disease	4 s.h.	Fall
MICR:6259	Graduate Bacteria and Human Disease	3 s.h.	Spring
EPID:6920	Applied Administrative Data Analysis	2 s.h.	Fall
EPID:5200	Principles of Public Health Informatics	3 s.h.	Fall (in-person & online)
EPID:6910	Pharmacoepidemiology and Comparative Effectiveness Research	3 s.h.	Fall even years
BIOS:6650	Causal Inference	3 s.h.	Fall odd years
STAT:6560	Applied Time Series Analysis	3 s.h.	Spring

\*Semester(s) offered subject to change due to enrollment, instructor availability, etc. Students should always check the course schedule at [MyUI.uiowa.edu](http://MyUI.uiowa.edu) for the most up to date version of the course schedule.

\*\*Students are strongly encouraged to take these courses.

In addition to the recommended courses listed above, it's strongly recommended that students work as a research assistant for an infectious diseases study.

**Total Credit Hours for the Infectious Disease Research Interest Area: 23 s.h.**