

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.

Clinical and Health Services Research Interest Area Electives
Recommended Plan of Study

Course #	Course Name	S.H.	Semester(s) offered*
Students interested in clinical and health services epidemiology will take the following four courses:			
EPID:5500	Introduction to Clinical Epidemiology	3 s.h.	Fall
EPID: 6910	Pharmacoepidemiology and Comparative Effectiveness Research	3 s.h.	Fall even years
EPID:6920	Applied Administrative Data Analysis	2 s.h.	Fall
HMP:4000	Introduction to US Healthcare System	3 s.h.	Spring, Summer (online)
In addition, students will choose at least 14 s.h. from the following recommended courses. Students should select courses in consultation with their advisor to reflect their research interest area (e.g. pharmacoepidemiology, comparative effectiveness, clinical trials, health services research, or outcomes research).			
EPID:5214	Meta-analysis of Epidemiologic Studies	3 s.h.	Spring odd years
EPID:5560	Introduction to Molecular Epidemiology	3 s.h.	Spring
EPID: 6640	Epidemiology of Maternal and Infant Health	2 s.h.	Not currently offered
EPID:6650	Cardiovascular Disease Epidemiology	3 s.h.	Not currently offered
EPID:6700	Cancer Epidemiology and Control	3 s.h.	Spring odd years
EPID:6900	Design of Intervention and Clinical Trials	3 s.h.	Fall
BIOS:5310	Research Data Management	3 s.h.	Fall, Spring
BIOS:6210	Applied Survival Analysis	3 s.h.	Spring
BIOS:6310	Introductory Longitudinal Data Analysis	3 s.h.	Fall
EPID:6420	Survey Design and Analysis	3 s.h.	Spring even years
BIOS:6610	Statistical Methods in Clinical Trials	3 s.h.	Spring
BIOS:6650	Causal Inference	3 s.h.	Fall odd years
CBH:6205	Designing and Implementing Interventions	3 s.h.	Fall
EPLS:5165	Introduction to Program and Project Evaluation	3 s.h.	Spring
HMP:7960	Analytical Issues in Health Services Research I	3 s.h.	Fall
HMP:7965	Analytical Issues in Health Services Research II	3 s.h.	Spring
PCOL:4130	Drug Mechanisms and Actions	3 s.h.	Spring
PCOL:5136	Pharmacogenetics and Pharmacogenomics	1 s.h.	Spring

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

Total Credit Hours for the Clinical and Health Services Research Interest Area: 25 s.h.