#### Epidemiology PhD Plan of Study Effective Fall 2020

<b>Course Number</b>	Course Title	<b>S.H.</b>	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*	3 s.h.	Fall	
Choose 1 of the following 2 courses:				
BIOS:6310	Introductory Longitudinal Data Analysis	3 s.h.	Fall	
BIOS:6210	Applied Survival Analysis	3 s.h.	Spring	
Choose 1 of the following 2 courses:				
HHP:3500	Human Physiology	3 s.h.	Fall, Spring, Summer**	
MPB:5153	Graduate Physiology	4 s.h.	Fall	
*Students with a strong bigginger beginning beginning may abage to substitute DATU-ore Datheless and				

# PhD Core Curriculum

\*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 (o 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.)

10-18

EPID:7000 Dissertation

# 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 i	in clinical and health services epidemiology will ta	ke the fo	llowing 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)
should select courses pharmacoepi, compa	s will complete at least 14 s.h. from the following r s in consultation with their advisor to reflect their arative effectiveness, clinical trials, health services	research research	interest area (e.g. a, 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 odd years
EPID:6071	Social Epidemiology	3 s.h.	Fall
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.	Spring
CBH:6205	Designing and Implementing Interventions	3 s.h.	Fall
EPLS:5165	Introduction to Program and Project Evaluation	3 s.h.	Spring
GEOG:4150	Health and Environment: GIS Applications	3 s.h.	Fall
HMP:7550	Cost Effectiveness and Decision Analysis	3 s.h.	Fall even years
HMP:7940	Primary Data and Mixed Methods	3 s.h.	Spring
HMP:7960	Analytical Issues in Health Services Research I	3 s.h.	Fall even years
HMP:7965	Analytical Issues in Health Services Research II	3 s.h.	Spring odd years
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 <u>MyUI.uiowa.edu</u> 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.