

# EPIDEMIOLOGY, PH.D.

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (<http://guide.wisc.edu/graduate/#policiesandrequirements>), in addition to the program requirements listed below.

### MAJOR REQUIREMENTS

#### MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	Yes	No

#### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW-Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

### CURRICULAR REQUIREMENTS

#### Requirements Detail

Minimum Credit Requirement	60 credits
Minimum Residence Credit Requirement	53 credits
Minimum Graduate Coursework Requirement	100% of degree coursework must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide.
Overall Graduate GPA Requirement	Students must maintain a cumulative GPA of at least 3.25 in all graduate work (including transfer credits) unless conditions for probationary status require higher grades. Students must also maintain a cumulative GPA of 3.25 or better in all coursework completed while enrolled in the graduate program. No grade of BC or lower in required courses will be accepted for the degree.
Other Grade Requirements	Students may maintain no more than 6 credits of Incomplete (I) grades during any semester.

**Assessments and Examinations** Full-time students have up until the end of their third year to pass the Qualifying Exam and their first sitting must occur no later than the end of their second year. Part-time students are expected to pass the exam before the end of their fourth year (regardless of whether the student is continuously enrolled) and their first sitting must occur no later than the end of their third year.

**Language Requirements** No language requirements.

**Doctoral Minor/Breadth Requirements** All doctoral students are required to complete a 9-credit minor.

### REQUIRED COURSES

Code	Title	Credits
POP HLTH/B M I 451	Introduction to SAS Programming for Population Health	2
POP HLTH/B M I 551	Introduction to Biostatistics for Population Health	3
POP HLTH/B M I 552	Regression Methods for Population Health	3
POP HLTH/B M I 651	Advanced Regression Methods for Population Health	3
POP HLTH/SOC 797	Introduction to Epidemiology	3
POP HLTH 798	Epidemiologic Methods	3
POP HLTH 805	Advanced Epidemiology: Causal Inference in Epidemiological Studies	3
POP HLTH 806	Advanced Epidemiology: Practice of Epidemiology	3
Students may use up to 11 credits of POP HLTH 990 Research toward the Ph.D. requirements in consultation with their advisor.		0-11

#### Responsible Conduct of Research

Select a minimum of 1 credit of course work in "the responsible conduct of research"		1
B M I 826	Special Topics in Biostatistics and Biomedical Informatics (Ethical Conduct of Research for Data Scientists)	
MED HIST 545	Ethical and Regulatory Issues in Clinical Investigation (Offered in Fall. MED HIST 545 does not fulfill all the NIH requirements for training in the responsible conduct of research for certain T and F awards.)	
NURSING 802	Ethics and the Responsible Conduct of Research (Offered in Spring)	
SURG SCI 812	Research Ethics and Career Development	
OBS&GYN 955	Responsible Conduct of Research for Biomedical Graduate Students (Offered in Fall)	
OBS&GYN 956	Advanced Responsible Conduct of Research for Biomedical Students (Offered in Spring)	

Other courses may be substituted as approved by the advisor and the Director of Graduate Studies.

### Epidemiology Specialization Courses

Ph.D. students must complete at least 12 additional credits of specialization work from the list below. 12

STAT/B M I 542	Introduction to Clinical Trials I
M M & I/ POP HLTH 603	Clinical and Public Health Microbiology
POP HLTH/ NUTR SCI 621	Introduction to Nutritional Epidemiology
POP HLTH/ GENETICS/ MD GENET 636	Public Health Genomics
POP HLTH 650	Special Topics (Topics: Environ. Health Epidemiology; Connections: Epidemiology Past, Present, and Future)
POP HLTH 713	Epidemiology of HIV/AIDS
POP HLTH 750	Cancer Epidemiology
SOC 751	Survey Methods for Social Research
SOC 752	Measurement and Questionnaires for Survey Research
POP HLTH/ M&ENVTOX 789	Principles of Environmental Health: A Systems Thinking Approach
POP HLTH/ KINES 791	Physical Activity Epidemiology
POP HLTH 801	Epidemiology of Infectious Diseases
POP HLTH 805	Advanced Epidemiology: Causal Inference in Epidemiological Studies
POP HLTH 806	Advanced Epidemiology: Practice of Epidemiology
POP HLTH/ OBS&GYN 807	Reproductive and Perinatal Epidemiology
POP HLTH 810	Global Health Epidemiology
POP HLTH 847	Cardiovascular Epidemiology
POP HLTH/ AN SCI/ GENETICS 849	Genetic Epidemiology
POP HLTH/ KINES 955	Seminar - Physical Activity Epidemiology

### Fourth Semester Biostatistics

See below for list of acceptable courses to satisfy the fourth-semester biostatistics requirement 1-3

B M I/ POP HLTH 652	Topics in Biostatistics for Epidemiology
STAT 349	Introduction to Time Series
STAT 351	Introductory Nonparametric Statistics
STAT 411	An Introduction to Sample Survey Theory and Methods
STAT 456	Applied Multivariate Analysis
STAT/ COMP SCI 471	Introduction to Computational Statistics
STAT 575	Statistical Methods for Spatial Data

STAT/B M I 641	Statistical Methods for Clinical Trials
STAT/B M I 642	Statistical Methods for Epidemiology
STAT 761	Decision Trees for Multivariate Analysis
SOC 952	Seminar-Mathematical and Statistical Applications in Sociology (can be taken with approval for appropriate topics)
ED PSYCH 711	Current Topics in Educational Psychology
ED PSYCH 773	Factor Analysis, Multidimensional Scaling and Cluster Analysis
ED PSYCH 861	Statistical Analysis and Design in Educational Research
ED PSYCH 871	Test Theory II
ED PSYCH 960	Structural Equation Modeling
ED PSYCH 964	Hierarchical Linear Modeling
PhD students must take POP HLTH 820 twice.	2
Doctoral Minor	9
<b>Total Credits</b>	<b>60</b>