

# Epidemiology, M.S.

M.S. students are trained in a comprehensive set of epidemiological and biostatistical methods, so they are ready to launch or further a career as a scientist after completing this research-focused degree. The M.S. in Epidemiology is a thesis-based, academic degree and students are expected to finish in two years. The first year is largely devoted to required course work and students are encouraged to work with faculty to develop an area of interest within which the M.S. thesis research will be conducted. The second year is chiefly devoted to advancing to candidacy and completing the research-based master's thesis. The final step is an oral presentation of the thesis research open to the public. Graduates of the MS program will be prepared for a variety of career opportunities where they can apply proficiencies in collecting, managing, and analyzing health-related data, and critically evaluating health-related research.

Refer to our website for additional information.

Applications to graduate study in the Department of Epidemiology and Biostatistics at UCI are through the UCI Graduate Division website. For further questions, contact EpiGrad@uci.edu. ([http://catalogue.uci.edu/joecwenschoolofpopulationandpublichealth/departments/epidemiologyandbiostatistics/epidemiology\\_ms/EpiGrad@uci.edu](http://catalogue.uci.edu/joecwenschoolofpopulationandpublichealth/departments/epidemiologyandbiostatistics/epidemiology_ms/EpiGrad@uci.edu))

M.S. students who do not have a degree from a Council on Education for Public Health (CEPH)-accredited public health school, must take PUBHLTH 200 to meet the CEPH-required 12 learning objectives.

M.S. requirements: At least 48 quarter credit units for degree and 12 thesis credits (60 units total).

## Program Requirements

A. Complete: <sup>1</sup>	
EPIDEM 200A	Principles of Epidemiology
EPIDEM 200B	Intermediate Epidemiology
EPIDEM 200C	Advanced Epidemiologic Methods
EPIDEM 204A	Biostatistics I: Introduction to Statistical Methods
EPIDEM 204B	Biostatistics II: Intermediate Statistical Methods
EPIDEM 204C	Biostatistics III: Advanced Statistical Methods
EPIDEM 220A	Data Management I
EPIDEM 220B	Data Management II
EPIDEM 280	Epidemiology Research Journal Club (must be taken three times, each quarter in year one)
EPIDEM 282	Epidemiology Department Seminar (must be taken five times)
EPIDEM 296	M.S. Thesis Research and Writing (12 units, taken after advancement to candidacy)
B. Complete 12 units of electives/directed study selected from the list below	

<sup>1</sup> Students who do not have a degree from a Council on Education for Public Health (CEPH)-accredited public health school, must take PUBHLTH 200.

## Approved Electives

EPIDEM 200D	Advanced Epidemiologic Methods and Causal Inference I
EPIDEM 200E	Advanced Epidemiologic Methods and Causal Inference II
EPIDEM 201	Cancer Epidemiology
EPIDEM 202	Genetic Epidemiology
EPIDEM 204D	Biostatistics IV: Survival Analysis
EPIDEM 205	Environmental Epidemiology
EPIDEM 212	Methods for Design and Implementation of Epidemiologic Research
EPIDEM 215	Introduction to Statistical Genetics
EPIDEM 232	Cardiovascular Disease Epidemiology and Prevention
EPIDEM 275	Special Topics in Epidemiology
EPIDEM 298	Directed Study in Epidemiology
EPIDEM 299	Independent Study in Epidemiology
PUBHLTH 208	Advances in Social Epidemiology

PUBHLTH 209	Methods of Demographic Analysis
PUBHLTH 210	Theory-Driven Secondary Data Analysis
PUBHLTH 213	Epidemiology in Global Health
PUBHLTH 222A	Health Policy and Management
PUBHLTH 223	Risk Communication
PUBHLTH 242	Theories of Health Communication
PUBHLTH 244	Health Behavior Theory
PUBHLTH 245	Health Promotion Planning
PUBHLTH 246	Social Research Methods
PUBHLTH 247	Program Evaluation
PUBHLTH 248	Fundamentals of Maternal and Child Health - Programs, Problems, and Policy
PUBHLTH 251	Models of Practice and Intervention at the Community Level
PUBHLTH 264	Introduction to Environmental Health Science
PUBHLTH 269	Air Pollution, Climate, and Health
PUBHLTH 272	Health Psychology
PUBHLTH 275	Environmental Modeling and Risk Management
PUBHLTH 277A	Target Organ Toxicology I
PUBHLTH 277B	Target Organ Toxicology II
PUBHLTH 278	Industrial Toxicology
PUBHLTH 279	Special Topics in Environmental & Occupational Health
PUBHLTH 280	Global Burden of Disease
PUBHLTH 281	Infectious Disease Epidemiology
PUBHLTH 282	Climate Change and Global Health
PUBHLTH 283	Geographic Information Systems for Public Health
PUBHLTH 286	Advanced Geographic Information Systems and Spatial Epidemiology
PUBHLTH 287	Qualitative Research Methods in Public Health
PUBHLTH 289	Special Topics in Global Health and Disease Prevention
PUBHLTH 290	Special Topics in Public Health
PUBHLTH 291A	Seminar: Advances and Challenges in Public Health
PUBHLTH 291B	Seminar: Advances and Challenges in Public Health
PUBHLTH 291C	Seminar: Advances and Challenges in Public Health
PUBHLTH 292	Ethics and Responsible Conduct of Research in Public Health
PUBHLTH 293	Foundations of Clinical and Translational Science
PUBHLTH 294	Research Communication in Public Health
PUBHLTH 297	Research Design and Proposal Writing
PUBHLTH 298	Directed Studies in Public Health
PUBHLTH 299	Independent Study in Public Health
EHS 201	Case Studies in Environmental Toxicology
EHS 202	Principles of Environmental Toxicology
EHS 204	Neurotoxicology
EHS 212	Inhalation Toxicology
EHS 290	Independent Study in Environmental Toxicology
EHS 297	Advanced Topics in Occupational Toxicology
EHS 298	Seminar in Environmental Health Sciences
EHS 299	Research Problems