

EPIDEMIOLOGY, M.P.H.

Overview

The mission of the Master of Public Health (M.P.H.) degree in epidemiology is to prepare students to apply epidemiologic skills in a practice setting. Students will learn and develop skills in planning and conducting epidemiological studies; developing and evaluating surveillance programs; developing culturally appropriate protocols for data collection; performing data analysis and presenting results orally and in writing. Upon graduation, students will be competitive for positions available at state health or governmental health departments, private industry, clinical, or university settings.

Upon completion of the M.P.H. degree program, students will have successfully mastered:

- CEPH[†] M.P.H. foundational public health knowledge competencies (n=12)
- The 22 CEPH M.P.H. foundational competencies (n=22)
- Epidemiology learning outcomes listed below (n=6)

Learning Outcomes

- Students will evaluate a public health surveillance system, identify salient gaps, and methods to address them.
- Students will determine the appropriate study designs for a given public health problem and context.
- Students will compare and contrast the strengths and limitations of epidemiologic study designs (randomized trials and observational studies), including biases and methods to minimize bias.
- Students will formulate a research question and manage and analyze data from public health administrative or surveillance data, or electronic health data repositories.
- Students will develop appropriate data collection protocols for a given public health issue and context.
- Students will critically evaluate epidemiologic scientific literature.

[†] CEPH Council of Education for Public Health is the accrediting body for all schools and programs in public health.

Degree Requirements (43 Hours)

School of Public Health Core (16 Hours)

Course	Title	Credits
PUBH 725	Quantitative Methods for Public Health Practice	5
PUBH 726	Qualitative Methods for Public Health Practice	3
PUBH 730	Public Health Systems, Policy, and Leadership	3
PUBH 735	Practical Applications of Public Health Planning	4
PUBH 678	Transforming Health Care for the Future	1
Total Credit Hours		16

Department Core (15 Hours)

Course	Title	Credits
EPID 721	Clinical and Population Research Protocol Development and Implementation	2
EPID 722	Scientific Writing and Appraisal of Epidemiologic Studies	2
EPID 741	Intermediate Epidemiologic Methods	3

BIOS 709	Basic Software for Public Health	1
BIOS 719	Advanced SAS Methods for Public Health	1
BIOS 757	Intermediate Biostatistics	3
EPID 796	Integrated Learning Experience	1
EPID 798	Epidemiology Applied Practicum	2
Total Credit Hours		15

Major Courses (6 Hours)

Course	Title	Credits
EPID 730	Public Health Surveillance Systems	3
EPID 788	Practical Methods for Secondary Data Analysis	3
Total Credit Hours		6

Electives (6 Hours)

- Electives may be chosen from epidemiology courses or courses in the University that support the overall educational goals of the student. The Faculty Advisor must approve all elective courses.