

# EPIDEMIOLOGY, M.S.

## Overview

The Master of Science in Epidemiology program focuses on the development of research skills necessary for the study of the factors which influence the public's health. Students whose long-term academic goal is to pursue a doctoral degree should enroll in the Master of Science degree program.

## Learning Outcomes

- Students will formulate research questions and develop evidence-based hypotheses that are testable with quantitative data.
- Students will develop protocols for primary data collection and for documentation of secondary data analyses.
- Students will synthesize and critically evaluate public health literature.
- Students will choose and apply appropriate quantitative analysis methods to answer a specific research question using a public health dataset.
- Students will communicate epidemiological findings effectively in oral and written formats.
- Students will demonstrate proficiency in at least one software package (SAS, R, etc.) to manage a public health dataset.
- Students will demonstrate proficiency in quantitative analysis of health disparities and health inequities.

## Degree Requirements (43 Hours)

### School of Public Health Core (3 Hours)

Course	Title	Credits
PUBH 700	Perspectives in Public Health	3
<b>Total Credit Hours</b>		<b>3</b>

### Department Core (22 Hours)

Course	Title	Credits
BIOS 701	Concepts and Methods of Biostatistics	3
EPID 701	Concepts and Methods of Epidemiology	3
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 757	Intermediate Biostatistics	3
BIOS 709	Basic Software for Public Health	1
BIOS 714	Introduction to MS Access for Public Health	1
BIOS 719	Advanced SAS Methods for Public Health	1
BIOS 754	Discrete Data Analysis	3
<b>Total Credit Hours</b>		<b>22</b>

### Major Courses (9 Hours)

Course	Title	Credits
EPID 788	Practical Methods for Secondary Data Analysis	3
Select two other epidemiology classes from the course listing		6
<b>Total Credit Hours</b>		<b>9</b>

### Elective (3 Hours)

- Electives may be chosen from courses in the University that support the overall educational goals of the student. Typically, the elective course is chosen from the list of EPID courses, in addition to the two major courses. The Faculty Advisor must approve all elective courses.

### Thesis (6 Hours)

Course	Title	Credits
EPID 799	Thesis Preparation	6
<b>Total Credit Hours</b>		<b>6</b>