

EPIDEMIOLOGY, M.S.

Overview

The Master of Science (M.S.) degree is designed for those who wish to acquire skills necessary for public health or biomedical research and want to focus on developing research skills for clinical research or the study of determinants of disease and other health-related outcomes. If you intend to further your study by pursuing a Ph.D. in Epidemiology, you will want to choose the M.S. rather than the M.P.H. degree.

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 government health departments, private industry, clinical or university settings, or application to Ph.D. programs in epidemiology.

Learning Outcomes

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