

MS in Epidemiology Learning Objectives

The Learning Objectives for the MS in Epidemiology are as listed below; and will be addressed in the course curriculum with well described methods of assessment. Students will be expected to be able to:

1. Apply epidemiologic methods to the breadth of settings and situations in public health practice.
2. Select quantitative methods appropriate for a given public health context.
3. Analyze quantitative data using biostatistics, informatics, computer-based programming and software, as appropriate.
4. Interpret results of data analysis for public health research, policy or practice.
5. Communicate audience-appropriate public health content, both in writing and through oral presentation.

After successful completion of the MS in Epidemiology degree, the graduate can expect to have the following competencies and be able to:

1. Develop hypotheses in the area of epidemiology through critical evaluation and synthesis of the public health and medical literature and interpretation of descriptive epidemiologic results.
2. Perform original research through the application of quantitative and analytical skills.
3. Demonstrate knowledge of the basic principles and methods of epidemiology including disease (outcome) measures, measures of association, study design, bias, confounding, and effect measure modification.
4. Effectively communicate research findings through competency in scientific writing and oral presentation.