

Epidemiology Concentration Competencies

After completion of this concentration, the graduate should be able to:

1. Describe the strengths, limitations, and issues such as bias, confounding, and effect modification pertinent to the proper application and execution of various epidemiologic study designs.
2. Identify and be able to access sources of public health data, such as vital statistics records, disease registries, other surveillance databases, census data, national surveys, and medical records.
3. Analyze and interpret epidemiologic measures of occurrence and association using basic statistical tests and models and summarize and present the findings.
4. Integrate epidemiologic and biostatistical knowledge in the critical evaluation of public health literature, including the use of theories of causation and criteria for causal inference, and identification of demographic, behavioral, social and environmental factors influencing population health.