Epidemiology, Ph.D.

Learning Outcomes

Graduates will be able to:

• summarize specific risk factor and disease processes in a specialized area;
• describe methods for primary data collection including quality assurance and quality control;
• use advanced statistical analysis methods appropriate for the study design and controlling for confounding variables;
• develop data collection instruments for research purposes;
• develop hypotheses that build upon literature and theoretical models of disease and causation;
• conduct an independent research project;
• compose a proposal for grant funding;
• communicate epidemiological concepts and methods in both writing and orally; and
• defend the methods, results, and implications of a research study.