

## PhD in Epidemiology Program Competencies

By the end of the program, students will be able to:

- **EPCC1:** Discuss the local and regional epidemiology of diseases and disorders of public health importance with an understanding of the underlying factors and context.
- **EPCC2:** Produce rigorous syntheses of published literature using systematic methodologies, and evaluate the quality of synthesized evidence.
- **EPCC3:** Use evidence syntheses to identify research gaps and questions for additional primary research
- **EPCC4:** Develop novel hypotheses that build on the research findings of others
- **EPCC5:** Apply methods from a variety of disciplines to the conduct of epidemiological research
- **EPCC6:** Design and lead independent research on theoretical and/or applied epidemiologic problems
- **EPCC7:** Develop and evaluate measurement tools necessary for generating valid epidemiological findings
- **EPCC8:** Effectively manage and evaluate data generated from population based surveys and epidemiological surveillance systems
- **EPCC9:** Use advanced statistical methods to analyze data generated from different epidemiological study designs
- **EPCC10:** Guide field personnel in conducting culturally/context sensitive research
- **EPCC11:** Interpret and evaluate original or published results
- **EPCC12:** Effectively communicate the results of epidemiological studies to multiple audiences both by publication in referred journals, presentation at professional meetings, and interaction with lay public and press.
- **EPCC 13:** Conduct research in accordance with accepted ethical principles and practices
- **EPCC14:** Prepare proposal for extra mural funding
- **EPCC 15:** Teach epidemiological concepts to undergraduate and graduate students and conduct professional training in epidemiology