Competencies

Graduates of the PhD Program will be able to:

- Explain the contributions of the different core areas to public health research and practice
- Apply public health principles learned in core courses to a focused area of study
- Demonstrate understanding of methodological issues applied to public health problems
- Demonstrate appropriate research design and use of methods
- Demonstrate competency in quality assurance/quality control methods
- Demonstrate skills necessary to assess the soundness of assessment and intervention tools used to measure public health concerns
- Apply basic univariate statistics to a dataset (e.g., mean, median, standard deviation, skew) using statistical software such as SPSS
- Apply basic multivariate statistics to a dataset (e.g., multiple regression, logistic regression; hierarchical regression) using statistical software such as SPSS
- Describe ethical challenges in conducting public health research and possible solution
- Develop a full draft of a grant proposal using the NIH format
- Critically evaluate public health research
- Develop a syllabus and evaluation plan for a public health course
- Demonstrate an in-depth understanding of public health issues/problem solving approaches in a core public health concentration and specialization
- Develop concentration-specific expertise to successfully conduct research and teach in that area
- Perform key research tasks (e.g., literature search; literature review; database development; data collection; data analysis; dissemination of findings)
- Participate productively as a member of a research team
- Effectively deliver course material, organize and lead group learning activities/discussions
- Appropriately interact with students
- Provide and receive constructive feedback concerning teaching skills
- Independently craft a research question suitable for a doctoral dissertation
- Independently develop a research procedure suitable for a doctoral dissertation
- Design and submit an IRB application appropriate to the dissertation research project
- Independently carry out a dissertation research project
- Independently analyze dissertation data
- Independently communicate, verbally and in writing, the results of the doctoral dissertation