

## **Master of Statistics – Biostatistics Learning Outcomes**

- Demonstrate familiarity with intermediate statistical theory and methods, Statistical Inference, Linear Regression, Categorical Data Analysis and Modern Causal Methods, Epidemiology, Longitudinal Data Analysis, and Survival Analysis.
- Demonstrate familiarity with core content of at least one area in health sciences: for example- genetics.
- Be able to:
  - Formulate and perform a descriptive and inferential analysis of a public health or other health sciences study using statistical software.
  - Reshape data for analysis using a programming or statistical language.
  - Interpret the findings from a moderately complex analysis.
- Understand and be able to address ethical, regulatory and practical aspects of human subjects research including human subjects protections and IRB requirements.
- Demonstrate competence in collaborative research in at least one area of public health or health sciences.
- Be capable of self directed learning of unfamiliar statistical methods and written and oral presentation of results/findings.