SLO1

The graduate will be able to use statistics to analyze and interpret data. They will understand the fundamentals of the field in the context of recognizing the effective use of data or information for the specific discipline(s). They will select and apply appropiate statistical procedures to the information. They will be able to analyze and accurately interpret of statistical result.

5501 (Select, Write, Run), 5595 (Analysis & Interpret), 5599 (Research Methods)

SLO2

The graduate will be able to design a testable research question or hypothesis. They will have adequate background knowledge about biological, biomedical, or population health contexts and problems including common research problems in order to generate a research question or hypothesis. They will be able to relate problems within and across levels of areas of the spectrum to bridge disciplines.

5501 (Hypothesis), 5510 (Prop RQ / RH, Oral RQ / RH), 5595 (RQ / RH), 5599 (Research Methods)

SLO3

The graduate will be able to identify responsible conduct of research resources and develop strategies for protecting oneself from scientific misconduct. They will become familiar with the agencies, departments, committees, policies and people involved in oversight to their research. They will recognize real and perceived conflicts of interest with regard to proposing and conducting research and publication of research results. They will also know and apply the recommended criteria for authorship for scientific publications.

5510 (Written Proposal: M\_StudyDes, M\_Proced; Oral Presentation: M\_StudyDes, M\_Proced), 5561 (Relevance & RCR Competence, Summary, Writing, Evaluation), 5595 (Methods, Applies Principles), 5599 (Research Methods)

SLO4

The graduate will be able to indentify and extract data necessary for a given research question. They will be able to develop research designs that capture and analyze aspects/data from related disciplines and can implement the research designed to bridge the fields. Students competent in biomedical informatics will be able to develop studies, apply theories and methods for the generation storage, retrieval use, and sharing of biomedical data, information and knowledge.

5520 (Info Retrieval, Critical Eval, Lit Citation), 5595 (Analysis & Interpret), 5599 (Relevancy)

SLO5

The graduate will be able to communicate scientific outcomes. This includes the ability to convey scientific methods and statistical findings, effectively field questions in an oral presentation format as well as in the preparation of thesis or capstone manuscripts.

5501 (Results Visuals, Results Write-up), 5502 (Delivery & Use of ppt), 5510 (Prop Lit Rev, Oral Background), 5595 (Oral Comm, Resp Quest), 5599 (Writing, Oral Comm, Resp Quest)