Biostatistics

3 Credits

This course provides an introduction to the basic foundation of evidence-based practice through an understanding of systematic inquiry, methods and statistical analysis. The purpose of this course is to understand the process of identifying a research problem or question, choosing relevant variables of interest and using the appropriate statistical method to answer the research question. Because the choice of a particular statistical method depends on the type of research question asked, the variables selected, the measurement of the variables, and the degree of certainty that is required, the course will start with a review of basic research methods and design.

After a review of research methods, the course will progress to descriptive and inferential statistics. Complex mathematical skills are not required for this course but you will need a basic calculator. Throughout the course, you will use the StatCrunch statistical package that accompanies your text and is available online. The StatCrunch statistical software will be used for most calculations, however, students need to understand the process involved in performing the various calculations and the rationale for choosing specific statistical methods. At the conclusion of the course, students will be expected to critique the research design and statistical analysis from research articles in the nursing and allied health professions.