CTSC 5601ACC
Utilizing Statistics in Clinical Research – Accelerated

Faculty: Felicity T. Enders, Ph.D.
Credits: 1
Quarters: Spring & Summer
Prerequisites: CTSC 5600 (prior to or concurrently)
This course (or CTSC 5601) is required for students in the CTS Postdoctoral Master’s and Predoctoral programs.

Overview
This hands-on, accelerated timeline course presents statistical software for introductory statistical methods including descriptive statistics, estimation, and inference. Students will gain a better understanding of statistics in clinical research by determining the appropriate statistical method for a particular study design and type of data, performing the appropriate statistical analysis using the JMP statistical software package, and correctly interpreting the results of the JMP analysis for statistical methods. In-person discussions will be held to explore the pros and cons of methods being used in the literature.

Objectives
- To identify an appropriate statistical method for a particular study design and type of data
- To perform the appropriate statistical analysis using the JMP statistical software package
- To correctly interpret the results of the JMP analysis for statistical methods

Evaluation
The final score will be determined by the timely completion of quizzes based on each of the computer labs, a midterm and a comprehensive final exam.

Students will be expected to spend approximately two to four hours outside of class each week on this 1-credit course. There are a total of ten in-person 2-hour long computer labs where students will utilize JMP software and other tools.

Additional online modules related to this topic are available on the Continuous Professional Development website.

For specific dates and times this course is provided, please see the quarterly detailed course schedule.