CTSC 5310
Clinical Epidemiology II

Faculty: Janet E. Olson, Ph.D.
Credits: 1
Quarters: Fall, Winter & Summer
Prerequisites: CTSC 5300

Overview
This group-project based course will guide students through the process of designing five methodologically sound studies. Students will work in assigned groups to develop these studies which will include elements of hypothesis specification, study design, study populations, measurement of important study variables, quality assurance/quality control, and internal and external validity. Independently and in groups, students will be expected to utilize the provided resources, draw on previously held knowledge, and seek out additional resources in designing their research projects.

Objectives
- To apply the thought processes necessary to design scientific studies
- To demonstrate knowledge of study design by selecting an appropriate study design and defending it relative to other designs
- To develop testable hypotheses and select appropriate study populations
- To determine and calculate the appropriate estimates of effect within given case studies
- To design study proposals to minimize potential of confounding and bias
- To gain experience working collaboratively on a study proposal development team

Evaluation
Student grades will be determined by four small group “Design-A-Study” assignments where students will work together to discuss and complete a study design. Additionally, students will submit one individually-designed case study and a peer reviews of classmates’ individual designs.

Students are expected to spend approximately two to four hours per week on this 1-credit course.

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.