

CTSC 5710

Practical Data Collection

Faculty: Fang-Shu Ou, Ph.D.

Credits: 1

Quarter: Fall

Prerequisites: CTSC 5600 and CTSC 5601

Overview

This hands-on course introduces the general principles and practical exercises of data management in medical research including laboratory experiments, cohort observational studies, and clinical trials. Students will gain experience with the design of data collection systems including REDCap and data quality control and monitoring. Students will be allowed to use their own data and research studies to complete some of the assignments.

Objective

- Understand the basic principles and practical tips for data collections
- Identify appropriate data collection systems for your research
- Collect quality data in an efficient and informative way
- Design efficient case report forms
- Create and build an electronic data entry interface and database (REDCap)
- Integrate appropriate data quality control processes into your research project

Evaluation

Attendance and participation is required. Students will have in-class exercises for each of the six course meetings. An additional five take-home assignments will compose the rest of the student's grade. Students will be allowed to use their own research studies for the first three homework assignments.

Students will be expected to spend approximately two to four hours per week on content from 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](#).