

CLINICAL AND TRANSLATIONAL INVESTIGATION (CTI)

CTI 602. Writing for Translational and Clinical Science. 2 Credit Hours.

This introductory core course will be taught by the Masters of Science in Clinical and Translational Investigation (MSCTI) Program Directors, as well as various guest lecturers. The focus of the course will be on developing grant and manuscript writing skills in the area of clinical and translational science across the translational science spectrum.

Components: LEC.

Grading: GRD.

Typically Offered: Spring.

CTI 603. Research Ethics. 3 Credit Hours.

Course focuses on topics related to what is sometimes called the "responsible conduct of research" (RCR). It covers the landscape of "scientific integrity" - both the principles and day-to-day practicalities of research ethics. The course is inter-disciplinary in its approach. Readings and other materials used as part of the course draw on the examples from many academic fields

Components: LEC.

Grading: GRD.

Typically Offered: Fall.

CTI 604. Advanced Independent Study. 1-3 Credit Hours.

Individual work on a special project and/or additional coursework under faculty guidance.

Components: IND.

Grading: GRD.

Typically Offered: Fall, Spring, & Summer.

CTI 605. Introduction to Team Science and Entrepreneurship. 2 Credit Hours.

This introductory core course will introduce students to fundamental topics in translational science related to team science and entrepreneurship. Through a series of lectures, participatory exercises, and guided discussions, students will learn practical strategies for engaging in team science and for developing a translational research project into an entrepreneurial endeavor.

Components: DIS.

Grading: GRD.

Typically Offered: Fall.

CTI 615. Statistical Methods for Clinical and Translational Research. 3 Credit Hours.

This introductory course is a core course for students admitted to the MSCTI and for others who are interested in the topics relevant to clinical and translational research. Topics to be addressed include explanatory and descriptive data analysis with numerical and graphical displays, hypothesis testing procedures, and commonly used regression modeling. Special topics in advanced methods will also be briefly introduced. This course will offer introductory materials to commonly used statistical methods and their application in clinical and translational science. Topics will be covered by first introducing the theory and then illustrating its application and analyses methods with the use of statistical software in case study scenarios. Students will be assigned several group projects and will give a final presentation that illustrates the correct use of select statistical methods and the proper presentation of analysis results.

Components: LEC.

Grading: GRD.

Typically Offered: Spring.

CTI 805. Capstone Project / Master's Thesis. 1-6 Credit Hours.

The Capstone Project is an opportunity and a vital component in the training and hands-on exposure for MSCTI students to apply the principles and practices of clinical and translational research. Students will engage in mentored research and complete either a research thesis, produce a publishable project in the form of a submitted manuscript, or submit a grant application, and all must deliver an oral presentation summarizing the research conducted. Students are encouraged to build their Capstone Program in a way that supports their academic and professional interests as they advance in their research careers as impactful clinical and translational science investigators and professionals.

Components: THI.

Grading: SUS.

Typically Offered: Fall, Spring, & Summer.