

CTSC 6170

The Science of Team Science – Strategies for Success

Faculty: Heather Billings, PhD and Alexandra Greenberg-Worisek, Ph.D., M.P.H

Credits: 1

Quarters: Fall

Prerequisites: None

Overview

This course offers practical guidance about engaging in Team Science to pursue complex research questions, work effectively with team members, and assess team performance in order to produce high impact research outcomes. Students will explore the basic principles of teamwork and multidisciplinary collaboration in order to accelerate translational research and strengthen the alignment of discovery science with the clinical practice.

Objectives

At the end of this course, learners will be able to:

- Describe changes in scientific authorship patterns that have occurred in the past 50 years
- Differentiate between multidisciplinary, interdisciplinary, and transdisciplinary research
- Describe factors to consider when deciding whether join an interdisciplinary research team
- Discuss factors to consider and steps to take when evaluating others as potential collaborators
- Develop a research team vision and mission statement
- Develop a collaboration plan for a new research team
- Demonstrate an understanding of meta-cognitive processes important for team functioning
- Recognize and resolve conflict that arises during the life cycle of a scientific team

Evaluation

The assignments for this course are designed for each student to put into practice the team science principles and best practices being discussed in class.