

Communications, Teamwork, Ethics and Leadership training for Multidisciplinary Research Teams

Course Number: CMSE 890-005 (2 credits)

Title: Communications, Teamwork, Ethics and Leadership
training for Multidisciplinary Research Teams

Time: Fridays 3:00 PM - 4:50 PM, Spring 2019

Location: [1220 Engineering Building](#)



Instructors: Drs. Dirk Colbry and Katy Luchini Colbry

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Format: The course will primarily consist of in-class group activities with minimal reading outside of class. Class materials are drawn from projects funded by the National Science Foundation and the National Institutes of Health, and participating in this class will fulfill the six hours of discussion-based RCR (responsible conduct of research) training required of all MSU graduate students prior to graduation.

Description: This course provides professional skills training in communications, teamwork, ethics and leadership for graduate students, including training in how to be an effective research mentor. The communication, teamwork and leadership skills training materials used in this course were developed as part of an NSF-funded MSU project to help develop curriculum to train “CyberAmbassadors” to be leaders in facilitating interdisciplinary research. The use of advanced technology, including cyberinfrastructure, in research is becoming ubiquitous as the use of technology emerges in nearly every scientific domain. Out of necessity, many scientists have become users of technology and may need to request the support of technology professionals, who are experts in engineering tools and methods. The assistance provided by technology professionals ranges from brief, routine interactions (e.g., providing access to resources and training) to in-depth, long-term collaborations (e.g., creating new technological tools or contributing to multidisciplinary research projects).

As the integration of technology in research continues, research professionals find themselves tackling problems and consulting on projects that are increasingly complex and collaborative. In order to respond to these various requests, researchers need both the expertise to solve technological challenges and the professional skills to work effectively in teams with diverse backgrounds, experiences, and goals. This class will help prepare graduate students to collaborate effectively with other researchers to advance multidisciplinary, technologically-intensive research.

Questions? Contact the instructor for more information, or to obtain an enrollment override.