

GRD

The Graduate School

GRD 500: Responsible Conduct of Research and Scholarship

This course is designed to introduce students to the major issues in the ethics of research and scholarship. Using a combination of readings - written and web-based - videos, lectures, case discussion and other exercises, students will investigate the moral values intrinsic to research/scholarship/creative activity in their discipline and the professional and social values with which members of the discipline must comply. Each class will begin with an introductory lecture or video followed by discipline-based, small group discussions with the participation of faculty from the department or program from which the graduate students come.

*0-3 credits, S/U grading
May be repeated for credit.*

GRD 510: Career Exploration with PhD Career Ladder Program

GRD 510 engages Master's and doctoral students in the PhD Career Ladder Program, a peer-led framework for career exploration and preparation. Graduate students follow seven career development steps which correspond to the essential components of an Individual Development Plan (IDP). The steps include: self-assessment, career research, informational interviewing, skill identification and building, CV/resume crafting, networking, and goal setting. Each section is led by a graduate student peer leader. Students will cultivate their career preparedness and gain a framework that they can apply to any career goal, academic and non-academic, now and in the future. By the end of the course, students will have gained increased confidence in and preparation for seeking a career of interest and will have a set of actionable goals for next steps.

0-1 credits, S/U grading

GRD 520: Introduction to Science Policy for STEM

Science, technology and innovation (STI) are ubiquitous part of life and we must understand these concepts in order to develop effective policies. This 1 credit hour course is designed to teach engineering and science graduated students the main concepts in science, technology and innovation policy.

*0-1 credits, S/U grading
May be repeated for credit.*

GRD 550: CEAS Placeholder

Placeholder course for students in special programs in CEAS. Specific programs designated by course topic.

*0-12 credits, S/U grading
May be repeated for credit.*

GRD 600: Rigor and Reproducibility in Research

A key backbone of the scientific method is the reproducibility of experimental observations. This means that results obtained by a specific study should be observed again if the experiment is repeated by the same or other researchers. Rigor in research is essential to ensure the reproducibility of results, as it results in the application of research methods that are robust and exclude bias. This course provides an overview of the general problems associated with ensuring research rigor and the reproducibility of results. Brief focused lectures are followed by in person, field-specific small group discussions and activities to facilitate discussions between faculty and students. Three sessions address issues of research rigor that are relevant across disciplines. Two additional sessions highlight issues specific to research in the biomedical sciences.

*0-1 credits, S/U grading
May be repeated for credit.*