

Responsible Conduct in Research
Subset of Physics 500.002 (CRN 69751)
Fall 2022

Class Dates: Friday November 11th, November 18th, December 2rd, and December 9th.

Class Time: 09:00 AM – 10:30 AM

Class Location: PAIS, Room 2540

Class Homepage: <http://physics.unm.edu/Courses/Schwoebel/P500Fa22/index.php>

Instructor: Paul R. Schwoebel

Office hours: Please contact via email to make an appointment.

Phone: 277-2616

E-mail: kas@unm.edu

Text: *On Being a Scientist: A Guide to Responsible Conduct in Research*
(National Academies Press, WDC, 2009).

Free pdf available at class homepage or: http://www.nap.edu/catalog.php?record_id=12192

Objectives:

1. Introduce students to the key ideas underlying the responsible conduct in research.
2. Certify students to work on National Science Foundation (NSF) and National Institute of Health (NIH) grants as required by the US Federal Government.

Certification: Attending all four classes and completion of the group presentation is required for certification. Registration for Physics 500 is NOT required for certification.

Recertification: Please go to: https://grad.unm.edu/aire/recertification/story_html5.html and complete the online module. Registration for Physics 500 is NOT required for recertification.

Schedule:

All classes will be held in PAIS 2540.

November 11: Introduction; Advising and Mentoring; Treatment of Data and Peer Review; Mistakes and Negligence; Research Misconduct.

November 18: Responding to Violations of Professional Standards; Human Participants and Animal Subjects in Research; Laboratory Safety; Sharing of Research Results; Authorship and the Allocation of Credit; Intellectual Property.

December 2: Competing Interests, Commitments, and Values; The Researcher in Society, Group Presentations.

December 9: Group Presentations.

Group Presentations: The class will be divided into groups and each group will choose a topic from the National Academies publication *On Being a Scientist: A Guide to Responsible Conduct in Research*. Outside class the group will develop *their own* case study focused on their topic. The study can involve other topics from the National Academies Guide because many can be interrelated. The group will have, depending upon the number of groups, approximately 20 minutes to present the case to the class and lead a discussion about the case and the ways it can be resolved. The case can be presented via role-playing and/or narration. The use of handouts and other media such as video is encouraged. All members of the group are expected to participate significantly in the case preparation, presentation, and discussion. Groups will make presentations during class on December 2rd and 9th.