

SYLLABUS

GRAD 214: Ethics and the Responsible Conduct of Research

Spring 2023, 1st Year Students

Updated 05/15/2023

GRAD 214: Ethics and the Responsible Conduct of Research Spring 2023 Course Syllabus

Dates and Times: June 12th-16th 2023, 9:00am-12:00pm PST

Location: Zoom (each session will have a unique Zoom ID)

Program Director:

Nancy Street, PhD

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Program Coordinator:

Rigney Turnham

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The UCSF Grad214, Ethics and the Responsible Conduct of Research is a thought-provoking, eight-session course designed to satisfy NIH and NSF requirements for training in the responsible conduct of research. The RCR program utilizes a combination of formal presentations and case study discussions during each 2-hour session to address contemporary debates at the interface between biomedical science and society. With attention to the tools and resources requisite of successful, ethical research careers, you will virtually meet with a community of UCSF faculty, staff, and students to discuss issues such as:

- Societal implications of scientific misconduct
- Collaborative science: data management, sharing, and ownership
- Responsible authorship, publication, and peer review
- Biomedical research and human subjects
- Anti-Racism in health, science, and research
- Animal welfare in research
- Conflicts of interest and scientific entrepreneurship
- Mentor and mentee responsibilities and relationships

Class Schedule

Day, Start Time	Session	Presenter(s)
Monday, June 12, 9:00 am	Opening Remarks Scientific Misconduct and Ethics in Science	Nicquet Blake, PhD Mark Ansel, PhD
Tuesday, June 13, 9:00am	Biomedical Research and Human Subjects	John Gordan, MD, PhD
Tuesday, June 13, 10:30am	Conflicts of Interest: Science Outside of the Academy	Gretchen Kiser, PhD
Wednesday, June 14, 9:00am	Scientific Record Keeping and Data Management	Ariel Deardorff, MLIS
Wednesday, June 14, 10:30am	Publications and Peer Review	Vivian Siegel, PhD
Thursday, June 15, 9:00am	Animal Welfare in Research	Carine Elkhoraibi, MS & Emily Goldberg, PhD
Thursday, June 15, 10:30am	Diversity and Equity	D'Anne Duncan, PhD
Friday, June 16, 9:00am	The Art of Mentorship and Being Mentored	Naledi Saul, MPM

Detailed Schedule and Session Information ZOOM Meeting ID and Password will be updated via CLE

Class requirements and logistics

The RCR 2023 is comprised of eight sessions. We are required to maintain an accurate record of RCR training for compliance. **Therefore, we require every student to do the following for each class (no exceptions):**

- Log into CLE and join the Zoom from the link listed under that day's session. **Be sure to log on using your same name as the name you are registered under.**
- Listen carefully, speak up in class discussions, allow others to express their perspectives
- Engage before, during, and after class on CLE.
- **Late arrivals or early departures will NOT be given credit for the session and will need to make up the session the next time this course is offered.**

SYLLABUS

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Final Assignment Short Essay: Each student is required to complete a final writing assignment. For this short essay, please choose a session topic and write:

- Your own case study. The first 1-2 paragraphs of the short essay should be a case study you have created. This can be drawn from your imagination, your own experience, or something from the news or popular culture. *If you are writing from your own experience, please de-identify all characters (change names, departments, institutions, and titles).* Use the case studies on the Moodle/CLE as a template.
- Analysis of the case study: For the rest of the essay, analyze your case study using the topics you learned in the course. For example, describe possible reasons why the events in the case happened the way they did, what could have been done differently, and resources available for similar situations.
- **If you do not turn in your final assignment, you will be required to select a session to attend the following year that the course is offered, attend that session and complete a final think piece essay for that session.**

Students who miss the final essay deadline or who do not submit a final essay will be required to make this up during next year's RCR course. Students will be asked to choose one session at next year's RCR course to attend and write up a final think piece on that specific session.

Short Essay Format Requirements:

- 2 pages; double spaced; one-inch margins; 12-point font
 - Word document saved as "*LastName.FirstName.Essay2023*"
 - Original work; citations should be consistent but do not need to be in a specific format
- The completed essay must be submitted via the CLE by **5pm on Tuesday June 20th, 2023.**

Attendance policy: Attendance will be taken 10 minutes after each session begins, and time spent in the sessions will be recorded. Late arrivals or early departures will NOT be given credit for the session and will need to make up the session the next time this course is offered. If you are having technical difficulty logging into Zoom and/or CLE, please contact Rigney Turnham (Rigney.turnham@ucsf.edu) for assistance.

Should you miss a class, listed below are the options available to you:

Option #1: Absent for ONE session

If a participant must miss one session, they may still get credit for the full course by submitting a Think Piece as described below. For example, if a participant attends seven sessions and submits a Think Piece case study analysis for the eighth, they can still pass the course. If the participant misses one session and does not submit a case study analysis or misses multiple sessions, option #2 will apply.

Make-Up Think Piece Requirements: A Think Piece should be 1-2 pages, double spaced, and 12 point font. Please read all session materials from the session missed on the CLE (especially the lecture PowerPoint) carefully and then write a Think Piece that responds to the case study using the concepts introduced by the session materials.

Think Piece Format Requirements:

- 1-2 pages; double spaced; one-inch margins; name; title of missed session
- Word document saved as "*LastName.FirstName.MakeUp2023*"
- Original work; citations should be consistent but do not need to be in a specific format

The completed think piece must be submitted via the link on the Moodle/CLE page for the session you missed by **Tuesday June 20th, 2023.**

Option #2: Absent for MORE THAN ONE session

If the participant can only attend a few of the sessions, we will issue a letter listing the individual sessions attended by the student. For example, if a participant only attends three sessions, their letter will verify completion of those three, specific topics. The letter will not state that the participant "failed" or "did not complete" RCR training. It will simply confirm the specific training completed for a subset of the topics that NIH suggests is acceptable. If the NIH grant program officer asks for verification of a participant's RCR training activity, the participant will be able to present this letter for some of the NIH requested topics.

The Graduate Division Office cannot guarantee that partial participation in RCR shall be deemed sufficient by your Program Officer or federal grant agency.

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Laptop policy:

This course uses lectures, case studies, and group discussions to teach students about some of the most important but difficult responsible practice topics facing professional researchers. **Students are expected to be fully engaged in all class lectures and discussions, and the course organizers and directors ask you to refrain from doing any personal or research-related work during class time.**

Statement on Accommodation: Students who require a physical, medical, or learning accommodation may [contact Disability Management \(https://hr.ucsf.edu/hr.php?org=c&AT=cm&S=Disability+Management\)](https://hr.ucsf.edu/hr.php?org=c&AT=cm&S=Disability+Management). In compliance with Education Code Section 92640(a), students may arrange to turn in course deliverables at a time that does not conflict with their religious observances.

Monday, June 12th, 2023

9:00am – 9:15am

Opening remarks by Dr. Niquet Blake.

9:20am-10:45am

Scientific Misconduct and Ethics in Science: Mark Ansel

Developing a well-reasoned response to an ethical problem in scientific research. The meaning of research misconduct and the regulations, policies, and guidelines that govern research misconduct in PHS-funded institutions. Includes topics such as fabrication, falsification, and plagiarism; error vs. intentional misconduct; institutional misconduct policies; identifying misconduct; procedures for reporting misconduct; protection of whistleblowers; and outcomes of investigations, including institutional & federal actions.

Tuesday, June 13th, 2023

9:00am – 10:20am

Biomedical Research and Human Subjects: John Gordan

Issues pertaining to biomedical research and human subjects' protections: privacy, confidentiality and protection of human tissue donors; management of data; informed and open consent; and ethical issues in research with vulnerable populations.

10:30am – 12:00pm

Conflicts of Interest: Science Outside of the Academy: Gretchen Keiser

The definition of conflicts of interest and how to handle conflicts of interest. Types of conflicts encountered by researchers and institutions. Includes topics such as conflicts associated with collaborators, publication, financial conflicts, obligations to other constituencies, and other types of conflicts.

Wednesday, June 14th, 2023

9:00am – 10:20am

Scientific Record Keeping and Data Management: Ariel Deardorff

Accepted practices for acquiring and maintaining research data. Proper methods for record keeping and electronic data collection and storage in scientific research. Includes defining what constitutes data; keeping data notebooks or electronic files; data privacy and confidentiality; data selection, retention, sharing, ownership, and analysis; data as legal documents and intellectual property, including copyright laws.

10:30am – 12:00pm

Publications and Peer Review: Vivian Siegel

The purpose and importance of scientific publication, and the responsibilities of the authors. Includes topics such as collaborative work and assigning appropriate credit, acknowledgments, appropriate citations, repetitive publications, fragmentary publication, sufficient description of methods, corrections and retractions, conventions for deciding upon authors, author responsibilities, and the pressure to publish. Also, the purpose of peer review in determining merit for research funding and publications. Includes topics such as, the definition of peer review, impartiality, how peer review works, editorial boards

SYLLABUS

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and ad hoc reviewers, responsibilities of the reviewers, privileged information and confidentiality, institutional animal care and use committees, and treatment of animals.

Thursday, June 15th, 2022

9:00am – 10:20am

Animal Welfare in Research: Carine Elkhoraibi & Emily Goldberg

Issues important in the use of animals in conducting research. Includes topics such as definition of research involving animals, ethical principles for conducting research on animals, federal regulations governing animal research, institutional animal care and use committees, and treatment of animals.

10:30am – 12:00pm

Diversity and Equity: D'Anne Duncan

Introduce students to issues related to diversity and equity both within the lab environment and the larger scientific community. Discuss the social impacts of scientific research. Explore how larger social and institutional structures affect scientific research as well as how such power structures impact those working on such projects, including students, PIs, and others.

Friday, June 16th, 2022

9:00am – 10:20am

The Art of Mentorship and Being Mentored: Niquet Blake

Introduce students to the responsibilities of mentors and trainees in predoctoral and postdoctoral research programs. Includes the role of a mentor, responsibilities of a mentor, conflicts between mentor and trainee, collaboration and competition, selection of a mentor, abuse of the mentor/trainee relationship, and policies for handling misconduct.

10:30am – 12:00pm

No session