

Scientific Conduct & Ethics

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Course description:

Ethical and current issues in microbiology are discussed from the perspective of scientific and ethical conduct. Case studies will be analyzed. Provides a fundamental understanding of a code of ethics for microbiologists, including ethical conduct, scientific integrity and the dignity of the profession and practice of microbiology.

Credits: 1

Date	Topic	Readings
Sept 5	Intro	
Sept 12	Ethics and the Scientist; Responsible Conduct of Research; Academic Integrity http://ori.hhs.gov/avoiding-plagiarism-self-plagiarism-and-other-questionable-writing-practices-guide-ethical-writing	Chapter 1,2 Fraud: 1,2,4,8
Sept 19	Ethics and the Scientist; Responsible Conduct of Research;	Chapter 3 Mentoring 1
Sept 26	Academic Integrity; Mentoring	
Oct 3	Genetic Technology and Scientific Integrity	Chapter 10
Oct 10	CRISPR doi:10.1038/nature.2015.17110 http://www8.nationalacademies.org/onpinews/newsitem.aspx?RecordID=09142015 http://sites.nationalacademies.org/PGA/PGA_165766	
Oct 17	Misconduct and Consequences Scientific Fraud - revisited	SCIENTISTS ON TRIAL - ALL FRAUD: 3, 5,6,7
Oct 24	Collaborative Research; Ownership of Data; Intellectual property	CHAPTER 9
Oct 31	Publishing	

Nov 7	Students presentations	
Nov 14	Students presentations	
Nov 21	Students presentations	
Nov 28	Students presentations	
Dec 5	Students presentations	
Dec 12	Students presentations	

Student Learning Goals:

1. Understand expectations and practice of academic/scientific integrity and responsible conduct of research.
2. Formulate and support personal positions on ethical issues of science relevant to the study of microbiology and related fields.

Assignments:

Current Ethical Issue in Microbiology

- Find a current issue – email the source to me, I will get you on the schedule; you will bring your issue to the class for discussion.

Book review & Presentation – A brief written review of one of the following books combined with a short presentation to the class.

Grading is based on:

- I. Attendance is compulsory
- II. Class participation
- III. Current Ethical Issue in Microbiology
- IV. Book review/Presentation