

Scientific Conduct & Ethics 16:682:530

Course description:

Ethical and current issues in microbiology are discussed from the perspective of scientific and ethical conduct. Case studies will introduce students to a range of practical ethical issues and guide students in making well-reasoned responses to ethical dilemmas encountered in the conduct of scientific research. Students will identify and discuss current topics concerning ethical issues in the sciences and analyze applying well established guidelines. Students will be expected to identify the parameters of an issue, evaluate courses of action and resultant outcomes, and articulation varied points of view. This course 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 and related fields.

Text: Macrina, F. SL. 2005. *Scientific Integrity*. Text and cases in responsible conduct of research. (3rd. Ed). American Society for Microbiology (ASM Press), Washington, DC.

Credits: 1

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

- Identify a current issue and introduce this issue to the class for discussion.

Book review & Presentation – A brief written review of a book selected from the course bibliography 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