

Current Topics in Microbiology

Biology 497A
Fall 2013
1 Credit

Instructor: Heather Fullerton
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Office Hours: TBA and by appointment

Class Meetings: Location BI 415. Mondays 2:00-3:50 (2 hrs)

Readings and Text:

- Brock Biology of Microorganisms
- Recent journal articles will be chosen based upon lecture material presented in Bio345 & will be posted on course website

Topics Covered

- Microbial Structure
- Genetics and Genomics of Bacteria
- Microbial Metabolisms
- Microbial Biogeography
- Bioremediation
- Pathogenic Bacteria

Course Goals and Objectives

To read and discuss current scientific literature using material learned in general microbiology lecture and laboratory courses. Students will develop skills and knowledge to critically examine and analyze current scientific literature in microbiology.

Format

Students must attend general microbiology lectures, unless course was taken previously
All students will read the assigned literature article and write one to three discussion questions before class
Students must participate in weekly discussions of current article

Grading

100 points possible (10pts/class);
40 for participation and attendance (4pts/class)
60 for discussion question preparation (6pts/class)
Review essay (3-5 pages) can be written to make up points for absences

Requirements

Students must be currently enrolled or have previously taken Bio345, General Microbiology Lecture