



BIOLOGICAL SCIENCES 303

MICROBIOLOGY

SUMMER 2014 (1144)

INSTRUCTOR	OFFICE	PHONE	EMAIL
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COURSE PREREQUISITES

BISC 102 and MBB 231¹

COURSE DESCRIPTIONS

The biology of microbes and their significance in the understanding of cellular processes

COURSE OUTLINE

Students will be introduced to the unique biology of microorganisms as well as their importance to industry and medicine. Lecture topics complement the lab exercises (see below) and will include: Taxonomy and Evolution, Microorganism growth and nutrition; sterilization, Microbial diversity - structure and function of bacteria, fungi and viruses, symbiosis, Immunology - vaccines, serology, Selected diseases, Antimicrobial agents, Bacterial and yeast genetics, Applied microbiology

Laboratory Component: The laboratory exercises familiarize students with basic techniques in microbiology. Labs will commence during the first week of classes. In addition to scheduled labs, for some exercises, students must attend open lab sessions to complete their experiments.

TEXTBOOK

Prescott's Microbiology, 9th Edition; Willey, Sherwood, Woolverton.

MARK DISTRIBUTION

Midterm Exam	20%
Final Exam	40%
Lab	40%

¹ Prerequisite Minimum Grade Requirement: Unless stated, a grade of C- or better is required on all Prerequisite BISC & MBB courses.