

Biology 245: General Microbiology

Spring 2022

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Office hours: See the [Biology Department office hours web page](http://www.jmu.edu/biology/_files/docs/office-hours.shtml) (http://www.jmu.edu/biology/_files/docs/office-hours.shtml) which will generally have the most up-to-date office hours for all the biology faculty. Meetings with me are also available by appointment.

Course Content

Course description. BIO 245. General Microbiology 400

A study of the microorganisms, their significance, evolution, structure and function, genetics, and the systems in which they exist. *Prerequisite:* BIO 103, BIO 140, CHEM 120, CHEM 131 or ISCI 101 or equivalent *Corequisite:* BIO 103, BIO 140, CHEM 120, CHEM 131 or ISCI 101 or equivalent.

Laboratory. The course has a required laboratory component.

Student Learning Outcomes

Upon successful completion of the course, students will be able to:

- Survey important "milestones" in the history of microbiology.
- Compare and contrast the structures and functions of macromolecules found as components of microbial agents/microorganisms.
- Compare and contrast different types of metabolism/metabolic pathways employed by different types of microbes.
- Compare and contrast different types of microbial agents and microorganisms with respect to morphology, physiology, and phylogeny.
- Integrate concepts of gene expression, natural selection, and evolution in the context of microbiological organisms.
- Demonstrate and operate a microscope to examine microscopic life including bacteria, protozoa, algae, fungi, etc.
- Differentiate bacterial cultures by using staining techniques.
- Compare the use of different types of microbial media for isolation and identification of bacteria and fungi.
- Classify unknown bacteria by performing metabolic tests.
- Incorporate aseptic/sterile techniques in all laboratory experiments.

Bio 142 Umbc Syllabus

Sylvia S. Mader



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General Biology II Laboratory Manual Clevinger, 2023-05-16 **Syllabus of Lectures in Theoretical Biology** Robert
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