

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

Ying Liu



Bio 142 Umhc Syllabus:

General Biology II Laboratory Manual Clevinger, 2023-05-16 Syllabus of Lectures in Theoretical Biology Robert Payne
Bigelow, 1896 **Lecture Syllabus for Human Biology** Pearson Custom Publishing, 1993-01-01 Complete Problem
Solving Sylvia S. Mader, 1993-01-01 **Science syllabus**, 1986 Approved by the Board in May 1985 for implementation in
Year 11 1987 and initial examination in Year 12 1988

Decoding **Bio 142 Umhc Syllabus**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Bio 142 Umhc Syllabus**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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