MONROE COUNTY COMMUNITY COLLEGE

Course Outcome Summary

Standard Course

BIOL 260 General Microbiology

Course Information

Division	**Science/Mathematics**
Contact Hours	**90**
Theory	**45**
Lab Hours	**45**
Total Credits	**4**

Prerequisites **BIOL 151 Biological Sciences I or Admission into the Associate Degree in Nursing (ADN) program**

Course Description

This is an introductory microbiology course designed according to the American Society for Microbiology Curriculum Guidelines for Undergraduate Microbiology. The course specifically teaches core competencies essential to an introductory microbiology course including fundamental skills used in a microbiology laboratory. This course also includes topics that are relevant to allied health majors.

Course Outcomes

In order to evidence success in this course, students will be able to:

1. Describe the contributions of the field of microbiology to science and society.
2. Explain, in broad terms, the role of microbial life in the structure and function of biological systems on Earth.
3. Explain how specialized microbial structures and metabolic capabilities can account for characteristics such as, pathogenicity, antimicrobial resistance, or survival in extreme environments.
4. Explain how knowledge of microbial characteristics is used to establish measures of disease control and prevention in community and healthcare settings.
5. Describe the mechanism of action of various methods of microbial growth control, including antimicrobial drugs.
6. Describe genetic processes that contribute to the evolution of microbial diversity.
7. Utilize standard microbiological methods in the microbiology laboratory.

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