

# Microbiology (MICR)

## Microbiology (MICR) Classes

### MICR 130 : General Microbiology

**Credits:** 3

**Class Hours:** 3 lecture

**Prerequisites:** Qualified for ENG 100. Qualified for MATH 82X.

**Corequisite Courses:**

MICR 140L

**Description:** This course is an introduction in microbiology with emphasis on the bacteria. The course includes topics in microbial morphology, metabolism, genetics, immunology, and selected topics in applied microbiology and virology. Special topics in microbial and parasitic diseases of man, animal, and plants will be used to illustrate the diversity and complexity of these microorganisms.

**Semester Offered:** Fall

**Designation:**

Diversification: Biological Sciences – DB

**Course Student Learning Outcomes (CSLOs):**

1. Explain the basics of microbial genetics.
2. Explain the concepts of microbial cell biology.
3. Categorize the different kinds of microorganisms.
4. Evaluate the interaction between microorganisms and humans.

### MICR 140L : General Microbiology Lab

**Credits:** 2

**Class Hours:** 4 lecture/lab

**Prerequisites:** "C" or higher or concurrent enrollment in MICR 130.

**Description:** This laboratory course will give practical, hands-on experiences in introductory microbiology. Laboratory exercises are selected to illustrate fundamental principles covered in lecture.

**Semester Offered:** Fall

**Designation:**

Diversification: Lab (Science) – DY

**Course Student Learning Outcomes (CSLOs):**

1. Demonstrate the use of standard microbiological laboratory equipment and appropriate laboratory techniques while maintaining safety protocols.
2. Demonstrate the ability to work collaboratively while identifying microorganisms using morphological and physiological tests and techniques.