

# BIOL215N : Microbiology

This is a comprehensive study of the principles of microbiology. A brief survey of the history of the science and evolutionary taxonomy is given. Emphasis is placed on understanding the variety and differences among microbes, their metabolism, genetics, and their relationships as pathogens or probiotics to humans and activity in the environment. Also covered are molecular biology technologies, including genetic engineering, gene therapy, PCR genomics, and cloning. Laboratory study accompanies this course requiring successful completion of topic supportive exercises and of completing an unknown project where a mixed culture is given to each student for isolation and identification as partial requirement of the course. This course fulfills Biology major requirements.

**Class Hours** 3

**Lab Hours** 3 **Credits** 4

**Prerequisites**

ENGL101N or ENGL110N, CHEM110N or CHEM130N, and BIOL105N, BIOL107N or BIOL201N or approval of Program Coordinator.