

# Bemidji State University

## BIOL 4715: Clinical Microbiology

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Clinical techniques used to identify medically important microorganisms will be examined. Correlate the presence of microorganisms to health and disease. Prerequisite(s): BIOL 3710.

**B. COURSE EFFECTIVE DATES:** 08/27/2018 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Identification procedures for medically important microbes and examination of their pathogenicity
2. Infection control
3. Isolation of microbes
4. Specimen collection methods
5. Susceptibility testing and antibiotic resistance

### D. LEARNING OUTCOMES (General)

1. formulate a process necessary to perform microbiology procedures, including culturing, gram staining, identification testing, and antibiotic susceptibility testing.
2. evaluate, assess, and characterize microorganisms as either normal flora or pathogens.
3. correlate microorganism isolation with possible disease states.
4. compare and contrast the major microbial pathogens in humans.
5. evaluate methods of disease prevention.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted