

**Western Dakota Technical Institute  
800 Mickelson Drive  
Rapid City, SD 57703-4018**

**Master Syllabus**

**Course Number:** MLT 240  
**Course Name:** Microbiology/Parasitology/Mycology  
**Credits:** 4  
**Contact Hours:** 3 Lecture; 2 Lab

**Course Description:** This course provides an introduction to the classification, morphology, identification, and sensitivity testing of microorganisms. More technical aspects of clinical microbiology including differential staining and testing for the detection, identification, and disease correlation of bacteria, parasites, and fungus will also be covered.

**Prerequisites:** HC 114

**Grade Requirement:** A minimum grade of C must be earned in this course to be eligible to graduate from the Medical Laboratory Technician Program and to progress to the MLT clinical practicum.

**Textbooks:** <http://bookstore.wdt.edu>

**Materials:** None

**Student Learning Outcomes:**

- Discuss the characteristics of microorganisms such as bacteria, parasites, fungus, yeasts, viruses, and rickettsia
- Discuss safety in the clinical microbiology laboratory including proper specimen collection, transport, and processing
- Describe theory and performance of microbiological procedures
- Identify commonly cultured bacteria, fungus, and parasites through microscopy, staining, and traditional methods of identification
- Describe antimicrobial susceptibility testing theory and performance

**Assessment:** The core abilities of life skills, technology skills, analytical skills, employability, and communication skills will be assessed throughout this course.

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