

---

## SECTION HEADING

### MDLT 2330: Clinicals: Medical Microbiology

#### Description

Medical Microbiology Clinical course consists of the student continuing their education in an affiliated hospital or clinic laboratory under the direct supervision of a qualified laboratory professional. The experience allows the students to refine laboratory techniques and apply knowledge learned in the didactic phase in an employment-like setting that offers realistic experiences unavailable in student laboratory sessions. Additionally, students acquire non-technical attributes including, but not limited to, communication, critical thinking, multitasking, and independent work skills. The student will practice and gain experience in basic medical laboratory techniques and procedures required for entry level Medical Laboratory Technicians.

#### Credits

2

#### Prerequisite

MDLT 2102, MDLT 2106, MDLT 2110, and MDLT 2120

#### Corequisite

None

#### Topics to be Covered

1. Medical Microbiology in Clinical setting

#### Learning Outcomes

1. Collect, process, and analyze biological specimens.
2. Perform routine clinical laboratory tests in medical microbiology.
3. Perform pre-analytical, analytical, and post-analytical processes.
4. Perform mathematical calculations related to all areas of the clinical laboratory.
5. Perform problem solving and troubleshooting techniques for laboratory methodologies.
6. Correlate laboratory test results with patient diagnosis and treatment.
7. Perform quality assessment within the clinical laboratory; recognize factors which interfere with analytical tests and take appropriate actions.
8. Demonstrate professional interpersonal, oral, and written communications skills sufficient to serve the needs of patients and the public including an awareness of how diversity may affect the communication process.
9. Apply basic scientific principles in learning new techniques/procedures; demonstrate application of principles and methodologies.
10. Utilize computer technology applications to interact with computerized instruments and laboratory information systems.

#### Credit Details

Lecture: 0

Lab: 0

OJT: 2

MnTC Goal Area(s): None