Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. MLT COURSE NUMBER: MDLT 2330

NUMBER OF CREDITS: _4________ Lecture:_______ Lab:_______

**Course Title:**

CLINICALS: MEDICAL MICROBIOLOGY

**Catalog Description:**

In this clinical laboratory course the student continues 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.

**FULFILLS MN TRANSFER CURRICULUM AREA(S)**

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:
**Prerequisites or Necessary Entry Skills/Knowledge:**
ENGL1101, HC1290, HC1180, MDLT1100, BIOL1115, CHEM1150, MDLT1110, MDLT1115, MDLT1120, MDLT1125, MDLT1105, MDLT1130, MDLT2106, MDLT2110, MDLT2120, MDLT2102, AND 5 CREDITS OF HUMANITY OR SOCIAL/BEHAVIOR SCIENCE COURSE.

**Topics to be Covered**
Medical Microbiology in Clinical setting

**Student Learning Outcomes**

- Collect, process, and analyze biological specimens
- Perform routine clinical laboratory tests in medical microbiology
- Perform pre-analytical, analytical, and post-analytical processes
- Perform mathematical calculations related to all areas of the clinical laboratory
- Perform problem solving and troubleshooting techniques for laboratory methodologies
- Correlate laboratory test results with patient diagnosis and treatment
- Perform quality assessment within the clinical laboratory; recognize factors which interfere with analytical tests and take appropriate actions
- 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
- Apply basic scientific principles in learning new techniques/procedures; demonstrate application of principles and methodologies
- Utilize computer technology applications to interact with computerized instruments and laboratory information systems

**Is this course part of a transfer pathway:** Yes ☐ No ☒

Revised 02/2020