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. Medical Laboratory Technician COURSE NUMBER: MDLT 2102**

**NUMBER OF CREDITS: 3 Lecture: 2 Lab: 1**

**Course Title:** Medical Microbiology II

**Catalog Description:**
Medical Microbiology II is the continuation of Medical Microbiology I. This course focuses on the study and identification of bacteria, parasites, viruses, and fungi. The student will be performing basic laboratory procedures in bacteria and fungi identification. The student will also be reviewing laboratory procedures that was taught in Microbiology I.

**FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)**
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:
MDLT 1105  Medical Microbiology I

Topics to be Covered (General)
Gram positive bacilli of medical importance
Spirochetes, Curviform bacteria, Chlamydia, Mycoplasma, Mycobacterium
Fungi, yeast, viruses, and parasites of medical importance

Student Learning Outcomes

1. Properly and safely collect and handle specimens using sterile technique
2. Discuss correct microscopic morphology, colonial morphology and biochemical tests to identify bacteria, yeast, and fungi
3. Correlate bacteria, yeast, fungi, parasite, and virus to disease/condition
4. Understand antibiotic testing
5. Perform microbiology tests, including those performed in Microbiology I
6. Describe the basic aspects of fungal classification and morphology, diagnosis, and disease production
7. Know fundamental concepts of parasitology and viruses and the technical vocabulary used in the field
8. Discuss Chlamydia, mycoplasma, and mycobacterium including mode of transmission, and diseases
9. Describe the best prevention and treatment of bacteria, fungi, viruses, and parasites

Is this course part of a transfer pathway:  Yes  ☐  No  ☒
*If yes, please list the competencies below

Revised 01/2020