

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. MDLT

COURSE NUMBER: 2101

NUMBER OF CREDITS: 3

Lecture: 2 Lab: 1 OJT: 0

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.

Prerequisites or Necessary Entry Skills/Knowledge:

MDLT 1105

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:

Topics to be Covered

Gram positive bacilli of medical importance

Spirochetes, Curviform bacteria, Chlamydia, Mycoplasma, Mycobacterium

Fungi, yeast, viruses, and parasites of medical importance

Student Learning Outcomes

Properly and safely collect and handle specimens using sterile technique.

Discuss correct microscopic morphology, colonial morphology and biochemical tests to identify bacteria, yeast, and fungi.

Correlate bacteria, yeast, fungi, parasite, and virus to disease/condition.
Understand antibiotic testing.
Perform microbiology tests, including those performed in Microbiology I.
Describe the basic aspects of fungal classification and morphology, diagnosis, and disease production.
Know fundamental concepts of parasitology and viruses and the technical vocabulary used in the field.
Discuss Chlamydia, mycoplasma, and mycobacterium including mode of transmission, and diseases.
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 Date: 3/29/2022