MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT. MDLT **COURSE NUMBER: 2330**

NUMBER OF CREDITS: 2 **Lecture: 0 Lab: 0 OJT: 2**

Course Title:
Clinicals: Medical Microbiology

Catalog 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.

Prerequisites or Necessary Entry Skills/Knowledge:
MDLT 2106, MDLT 2110, MDLT 2120, and MDLT 2102.

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
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 ☒
***If yes, please list the competencies below**

Revised Date: 3/29/2022