HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE TITLE & NUMBER: Medical Microbiology 2: MLT 2424
CREDITS: 4 (2 Lec/2 Lab)
PREREQUISITES: MLT 1424: Medical Microbiology 1

CATALOG DESCRIPTION:
Medical Microbiology 2 is an advanced course which introduces clinically significant fungi, mycobacterium, parasites, viral agents, and less common bacterial organism by organ system of the body. This course also covers specimen collection, specimen processing, and automated microbiology systems.

OUTLINE OF MAJOR CONTENT AREAS:
1. Introduction to complex microorganisms (Eukaryotes)
   A. Structure
   B. Fungi
   C. Mycobacterium
   D. Intestinal parasites
   E. Viruses
   F. Blood and tissue parasites
2. Specimen processing, diseases, and identification of pathogens, including bacteria, fungi, parasites, and viruses by body system.
   A. Skin
   B. Respiratory
   C. Alimentary
   D. Genitourinary
   E. Nervous system
   F. Blood
   G. Wound infections
3. Automated methods in microbiology

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will understand clinical laboratory safety procedures and practices.
2. Students will understand the use of quality control procedures, the resolution of discrepant results, and the significance of unusual findings.
3. Students will understand specimen collection, transportation, processing, and rejection criteria for specific pathogens including bacteria, fungi, parasites, and viruses.
4. Students will understand specimen testing and ID processes as it pertains to normal flora, opportunistic organisms, and pathogens including bacteria, fungi, parasites, and viruses.
5. Students will be able to correlate test results to patient diseases, including bacteria, fungi, parasites, and viruses.
MNTC GOALS AND COMPETENCIES MET:
N/A

HCC COMPETENCIES MET:
Working Productively and Cooperatively
Thinking Creatively and Critically
Communicating Clearly and Effectively

STUDENT CONTRIBUTIONS:
The student is expected to:
1. Demonstrate and follow safe laboratory techniques
2. Attend lectures and labs
3. Participate in class activities and discussions

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

Curriculum Committee Approval Date: April 3, 2018

AASC APPROVAL DATE: April 18, 2018
REVIEW DATE: April 2023