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. Isolation and identification of significant human pathogens by:
   A. Morphology
   B. Site of isolation
   C. Clinical testing methods
2. Identification of complex microorganisms such as:
   A. Mycobacterium
   B. Spirochetes
   C. Viruses
   D. Mycoplasma
   E. Protozoan parasites
   F. Blood and tissue parasites
   G. Intestinal worms

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will identify significant microbial pathogens in various acceptable clinical samples, distinguishing the pathogen from normal flora.
2. Students will analyze samples and case studies, identifying viral and fungal pathogens while excluding interferences and contaminants.
3. Students will interpret patient data to determine rarer elements of disease including but not limited to: Mycoplasma, Rickettsias and Mycobacterium.
4. Students will correctly identify protozoan parasites from prepared samples and patient case studies.
5. Students correctly identify intestinal, blood, and tissue parasites related to human disease from prepared samples and patient case studies.

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: October 1, 2019*

*AASC APPROVAL DATE: October 16, 2019*
*REVIEW DATE: October 2024*