

# North Hennepin Community College

## MLT 2080: Clinical Microbiology

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites:

This course requires either of these prerequisites

BIOL 1001 - Biology I (Minimum grade: 1.67 GPA Equivalent)

BIOL 1101 - Principles of Biology I (Minimum grade: 1.67 GPA Equivalent)

Corequisites: None

MnTC Goals: None

This course covers the isolation, identification, and significance of clinically associate bacteria, mycobacteria, fungi, and parasites.

Prerequisite: Admission to the MLT Program and Biol 1001 or Biol 1101

**B. COURSE EFFECTIVE DATES:** 08/27/1997 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. See Course Description and Course Outcomes

### D. LEARNING OUTCOMES (General)

1. Discuss the clinical relevance of 80% of the usually isolated microorganisms. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2)
2. Perform a variety of bacteriological procedures allowing for the identification of 90% of the usually occurring bacteria. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2, 3, 4)
3. Outline and perform concentration and staining techniques used for the identification of parasites. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2, 3, 4)
4. Microscopically identify commonly occurring parasites. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2)
5. Perform basic mycological procedures allowing for the identification of 80% of the usually occurring yeasts and molds. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2, 3, 4)
6. Discuss initial virology procedures for the preservation and transport of clinical specimens. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2)
7. Prepare, stain and microscopically examine clinical materials and culture isolates. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2, 3, 4)

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

## **G. SPECIAL INFORMATION**

1. Knowledge of Human Cultures and the Physical and Natural World--Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.
2. Intellectual and Practical Skills--Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy; Information literacy; Teamwork and problem solving.
3. Personal and Social Responsibility and Engagement--Including: Civic knowledge and involvement--campus, local and global; Intercultural knowledge and competence; Ethical reasoning and action; Foundations and skills for lifelong learning.
4. Integrative and Applied Learning--Including: Synthesis and advanced accomplishment across general education, liberal studies, specialized studies and activities in the broader campus community.