

# North Hennepin Community College

## MLT 2150: Clinical Immunohematology

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 1.5

Lab Hours/Week: 1.5

OJT Hours/Week: \*.\*

Prerequisites:

This course requires both of these prerequisites

MLT 2050 - Clinical Hematology (Minimum grade: 1.67 GPA Equivalent)

MLT 1250 - Clinical Immunology (Minimum grade: 1.67 GPA Equivalent)

Corequisites: None

MnTC Goals: None

This course will include principles of immunohematology and transfusion service procedures, including blood typing, antibody screening, compatibility testing, antibody identification, problem resolution, hemolytic disease of the newborn, and transfusion therapy. (two hours lecture, three hours lab)

Prerequisite: Admission to the MLT Program; MLT 1250 and MLT 2050.

**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. Perform and interpret ABO cell and serum typing with 100% accuracy; perform and interpret D and Du testing. (NHCC ELOs 1, 2, 3, 4)
2. Discuss the basic test methods and principles of immunohematology testing, including significance. (NHCC ELOs 1, 2)
3. State the pattern of inheritance for expression of common blood group antigens. (NHCC ELOs 1, 2)
4. List and discuss major blood group systems, relating their importance to transfusion and hemolytic disease. (NHCC ELOs 1, 2)
5. Describe and perform necessary pre-transfusion testing, and describe components currently used therapeutically. (NHCC ELOs 1, 2, 3, 4)
6. Describe the relevance of the HLA system in platelet transfusion and organ or bone marrow transplantation. (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.