

# North Hennepin Community College

## MLT 2360: Applied Immunohematology

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites:

This course requires all eight of these prerequisites

MLT 2150 - Clinical Immunohematology

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

MLT 1000 - Clinical Laboratory Basics (Minimum grade: 1.67 GPA Equivalent)

MLT 1100 - Clinical Urinalysis/Body Fluids (Minimum grade: 1.67 GPA Equivalent)

MLT 1200 - Clinical Laboratory Instrumentation (Minimum grade: 1.67 GPA Equivalent)

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

MLT 2080 - Clinical Microbiology

MLT 2100 - Clinical Chemistry

Corequisites: None

MnTC Goals: None

This course is the application of immunohematology policies and procedures in the clinical transfusion service setting. Students will perform pretransfusion compatibility testing in accordance with the American Association of Blood Bank Standards.

Prerequisite: Admission to the MLT Program; Completion of MLT Didactic Courses

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

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Topics covered: Pre-transfusion compatibility testing for safe blood component therapy, blood component selection for transfusion, adverse reactions to transfusion, component inventory, routine perinatal testing, and quality assurance practices.

#### **D. LEARNING OUTCOMES (General)**

1. Perform pre-transfusion compatibility testing for beneficial transfusion.  
(MLT Program Goal C: Correlate laboratory theory and terminology to practical work. MLT Program Goal M: Perform basic skills for technical area.)  
(NHCC Core Ability: Critical Thinking, competency a.)
2. Assist in the appropriate selection and inspection of blood components for transfusion in accordance with the FDA and American Association of Blood Banks Standards. (MLT Program Goal G: Apply quality assessment principles to monitor procedures, equipment and technical competency.)  
(MLT Program Goal C; NHCC Core Ability: Critical Thinking, competency a. (NHCC Core Ability; Ethical and Civic Responsibility, competency c.))
3. List the appropriate storage requirements for blood and the blood components. (MLT program goal J; NHCC Core Ability: Critical Thinking competency, a, c.)
4. Discuss routine reagent quality control testing with reference to frequency and selection of positive and negative controls. (MLT Program Goal G: Use quality assurance principles in monitoring procedures, equipment and competency.)
5. Monitor the blood bank equipment, freezers and refrigerators for proper function and temperatures. (MLT Program Goal G: Use quality assurance principles in monitoring procedures, equipment and competency.)
6. Demonstrate a basic understanding of Blood Bank Information and Quality Systems Essentials.  
MLT Program Goal G: Apply quality assessment principles in monitoring procedures, equipment, and technical competency. (NHCC Core Ability; Ethical and Civic Responsibility, competency c.)

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

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted