

# North Hennepin Community College

## MLT 1200: Clinical Laboratory Instrumentation

### A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course will introduce the student to the basic operation and associated functions related to selected laboratory instruments and equipment.

Prerequisite: Admission to MLT Program

### 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. Identify the basic functional and electronic units of analytical instruments. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELO 1)
2. Discuss laboratory safety precautions concerning laboratory instrumentation. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2)
3. Discuss the basic construction and operating principles of spectrophotometers and ion selective electrodes. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2)
4. Discuss laboratory quality control statistics and evaluate results. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELOs 1, 2)
5. Explain basic care and maintenance procedures on select laboratory instruments. (MLT Program goals C, D, F, G, H, I, J, M 1 & 4; NHCC ELO 1)

### 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.