

North Hennepin Community College

MLT 2100: Clinical Chemistry

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites:

This course requires all three of these prerequisites

CHEM 1062 - Principles of Chemistry II (Minimum grade: 1.67 GPA Equivalent)

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

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

Corequisites: None

MnTC Goals: None

This course introduces the basic principles, procedures, and correlations of the clinical chemistry laboratory. The theory of basic laboratory instrumentation and procedures will be discussed and practiced.

Prerequisite: Admission to the MLT Program; MLT 1000 and 1200 and Chem 1062.

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 theory and principles of clinical chemistry assays and instruments used in the clinical chemistry lab. (NHCC ELOs 1, 2)
2. Accurately perform specified laboratory procedures. (NHCC ELOs 1, 2, 3)
3. Correlate clinical chemistry assay results to diagnostic significance. (MLT Program Goals C, K, and M, I, 1, c; 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.