A. COURSE DESCRIPTION

Credits: 6
Lecture Hours/Week: 6
Lab Hours/Week: 0
OJT Hours/Week: *.*

Prerequisites:
This course requires the following prerequisite
   MELT 2620 - MLT Seminar (Number of Years Valid: 5)

Corequisites: None

MnTC Goals: None

This course provides a cumulative review of medical laboratory procedures and theoretical concepts from all phases of laboratory testing. Emphasis is placed on recall and application of theory, correlation, and evaluation of all areas of laboratory science. Students will apply their technical knowledge to laboratory case studies and review major areas of the MLT curriculum with an emphasis on critical thinking skills. Students will have access to practice examination in preparation for certification examinations. Upon completion, students should be prepared for national certification examinations and employment.

B. COURSE EFFECTIVE DATES: 04/05/2024 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Acquire knowledge related to the field of medical laboratory science.
2. Gain practical skills to conduct competent laboratory testing.
3. Apply communication and critical thinking skills.
4. Employ modern information technology.
5. Demonstrate positive professional ethics, attitudes, and practices.
6. Conduct research applicable to medical laboratory diagnostics and present case study.
7. Evaluate, correlate, and assure accuracy and validity of laboratory information.
9. Evaluate patient results, correlating physical, chemical and microscopic findings.
10. Assess pre-analytical, analytical, and post-analytical factors.
11. Correlate laboratory test results to disease processes.
12. Practice knowledge of testing techniques in all laboratory departments.
13. Prepare a professional resume.
15. Develop a commitment to lifelong learning and professional development.

D. LEARNING OUTCOMES (General)

1. Demonstrate knowledge in all clinical laboratory technology techniques.
2. Integrate ethical and professional behavior in the clinical laboratory setting.
3. Research, write, and present a case study.
4. Demonstrate the cognitive theory necessary to pass the national certification examination.
5. Demonstrate MLT entry-level attributes.
E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted