



Course Description

MLT2620 | Clinical Chemistry 2 | 2.00 credits

Theoretical concepts and principles of proteins, enzymes, and lipids with emphasis on their relationship to various disease states. Prerequisite: MLT1610; corequisite: MLT2620L.

Course Competencies:

Competency 1: The student will demonstrate knowledge of the principles and practices of clinical chemistry by:

1. Describing the basic concepts, components and methods for Quality Control
2. Describing the different types of safety hazards encountered in Clinical Chemistry
3. Determining common sources of error in Clinical Chemistry Analysis
4. Selecting proper specimens for analysis in Clinical Chemistry

Competency 2: The student will demonstrate knowledge of different laboratory analytes by:

1. Describing the function, structure, the basic principles and the clinical significance of each of the following chemical substances:
 - a. Enzymes and isoenzymes
 - b. Lipids
 - c. Hormones
 - d. Proteins

Competency 3: The student will demonstrate an understanding of Pathophysiology by:

1. Explaining the functions, ailments and laboratory tests used to diagnose the following:
 - a. Liver Function
 - b. Cardiac Function
 - c. Adrenal and Gonadal Function
 - d. Pituitary and Thyroid Function
 - e. Pancreatic & Gastrointestinal Function

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning
- Use computer and emerging technologies effectively