

## **Course Competency**

## MLT 2624L SP TECH/CLIN CHEM L

## **Course Description**

The principles and performance of electrophoresis for identification of protein, lipids and enzymes abnormalities; immunoassays, fluorescent polarization immunoassay and ELISA for quantitation of hormone levels; and EMIT, FPIA, Thin layer Chromatography for identification of different drugs.

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate knowledge and application of the principle of electrophoresis by:	<ol> <li>Critical thinking</li> <li>Numbers / Data</li> <li>Computer / Technology Usage</li> </ol>
Performing Electrophoresis techniques     Correlating the significance of the different protein electrophoresis procedures in state of disease     Listing several substances that can be separated electrophoretically and explaining the clinical significance of abnormalities found in each.	
Competency 2: The student will demonstrate knowledge and application of the principle of different toxicology procedures by:	<ol> <li>Communication</li> <li>Numbers / Data</li> <li>Critical thinking</li> <li>Computer / Technology Usage</li> </ol>
Evaluating pharmacokinetics     Describing forms of administration     Describing Drugs of Abuse screening techniques.     Explaining Drugs of Abuse confirmatory testing	
Competency 3: The student will demonstrate knowledge and comprehension of molecular diagnostic procedures by:	

- 1. Describing the advantage of molecular diagnostic procedures
- 2. Recognizing and identifying assays for detection and quantitation of DNA and RNA
- 3. Listing and explaining the procedure of the Polymerase chain reaction (PCR)
- 4. Listing and explaining the procedure of Hybridization Techniques

Updated: FALL TERM 2022