MLT2151 - Introduction to Molecular Diagnostics

Credits:	1 (1/0/0)
Description:	This course is an introduction to specific molecular biology applications in the laboratory. This course includes a discussion of DNA, genetics, nucleic acid extraction and modification, blotting methods, polymerase chain reaction (PCR) and probe analysis in relation to the diagnosis of various diseases.
Prerequisites:	• MLT1116
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Compare and contrast various molecular methods. 2. Diagram the structure of nitrogenous bases, nucleosides, nucleotides, amino acids and proteins. 3. Describe different nucleic acid extraction methods. 4. Discuss the application of molecular methods in the diagnosis of bacterial fungal, viral and parasitic infections. 5. Discuss the application of molecular methods in the diagnosis of genetic disorders. 6. Describe quality assurance and quality control testing used in molecular diagnostic methods. 7. Interpret normal and abnormal test results. 8. Display interpersonal relationship skills with regard to courtesy and cooperating with fellow students and instructors. 9. Comply with course and college policies and procedures.
MnTC goal areas:	None

Can be taking as a Prerequisite or Corequisite.