

## MLT2151 - Introduction to Molecular Diagnostics

Credits:	1 (1/0/0)
Description:	This course is an introduction to specific molecular biology applications in the laboratory. The 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:	
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"> <li>1. Compare and contrast various molecular methods.</li> <li>2. Diagram the structure of nitrogenous bases, nucleosides, nucleotides, amino acids and proteins.</li> <li>3. Describe different nucleic acid extraction methods.</li> <li>4. Discuss the application of molecular methods in the diagnosis of bacterial fungal, viral and parasitic infections.</li> <li>5. Discuss the application of molecular methods in the diagnosis of genetic disorders.</li> <li>6. Describe quality assurance and quality control testing used in molecular diagnostic methods.</li> <li>7. Interpret normal and abnormal test results.</li> <li>8. Display interpersonal relationship skills with regard to courtesy and cooperating with fellow students and instructors.</li> <li>9. Comply with course and college policies and procedures.</li> </ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.