

Course Description

MLT2192L | Histotechnology 2 Laboratory | 2.00 credits

This course is a continuation of Histotechnology Lab 1. Students will be introduced to more complex laboratory techniques in histotechnology. Prerequisite: MLT1191L; corequisite: MLT2192

Course Competencies:

Competency 1: The students will demonstrate knowledge, comprehension and application of microtomy and frozen sectioning by:

- Using hand eye coordination when performing the following: Performing frozen sectioning Performing microtomy Embedding tissue Staining slides with H and E
- Troubleshooting the following instruments Microtome Cryostat Water-bath Slide Drying Ovens Tissue Processor
- 3. Troubleshooting the staining offrozen sections

Competency 2: The student will demonstrate knowledge and comprehension of a variety human tissue processing by:

1. Preparing a variety of human tissue specimens for processing to include but not limited to; brain, kidney, liver, bone, and other human tissue specimens

Competency 3: The students will demonstrate knowledge, comprehension, and application of advance fixation techniques by:

2. Explaining the preparation and used of the following common fixatives used in the histotechnology laboratory to include; B-5, Helly's, Zenker's, Carnoy's, FAB and others

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Demonstrate knowledge of diverse cultures, including global and historical perspectives
- Use computer and emerging technologies effectively
- Describe how natural systems function and recognize the impact of humans on the environment