



Course Description

MLT1191 | Histotechnology 1 | 3.00 credits

This course will introduce students to the fundamental principles of histologic technology. These include the principles of fixation, processing for paraffin-embedding, microtome sectioning, staining and cover-slipping and laboratory safety.

Course Competencies:

Competency 1: The student will demonstrate knowledge and comprehension of fundamental principles of histologic technology by:

1. Defining specific terms used in histotechnology laboratories
2. Comparing the various methods of collection of histologic specimens
3. Relating the principle involved in histologic specimen processing
4. Describe the use of the hematoxylin/eosin staining method

Competency 2: The student will demonstrate knowledge and comprehension of tissue processing methods by:

1. Describing the principles, aims and functions of tissue processing
2. Infer how certain factors influence what occurs to tissue during tissue processing
3. Describing the principles of embedding, staining and cover slipping
4. Create charts that explain the advantages and disadvantages of several tissue processing chemicals

Competency 3: The student will demonstrate knowledge and comprehension of hazardous in the histotechnology laboratory by:

1. Identifying chemical hazards
2. Identifying biological hazards
3. Identifying physical hazards
4. Identifying mechanical hazards
5. Outlining the principle involved in the safe handling of chemical and biological hazards
6. Outlining the principle involved in the working safely with instrumentation present in the histotechnology laboratory

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- 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