

**Course Description****MLT2841L | Histotechnology Practicum 2 | 5.00 credits**

This clinical experience will introduce the students to the basic techniques of microtomy, staining and preparation of human tissue for anatomical pathology. Corequisite: MLT1840L.

**Course Competencies:**

**Competency 1:** The student will demonstrate clinical expertise in tissue sectioning and routing Histotechnology work by:

1. Interpreting the request and identifying the series of steps necessary to carry out the performance of specific tests in the Histotechnology laboratory
2. Inspecting specimens and notify the instructor of any rejections
3. Verifying and identifying the condition of specimens that are received
4. Performing and documenting all maintenance and quality control of instruments listed below, as applicable: Microscope Microtome Automatic tissue processor Automatic stainer Automatic cover slipper Embedding center Refrigerators Freezers Cryostat
5. Prioritizing daily workload
6. Describing any deviations from routine Histotechnology versus non-routine Histotechnology

**Competency 2:** The student will demonstrate clinical expertise in routine and histochemical staining by:

1. Performing and reproducing laboratory results obtained by clinical affiliate technical personnel in embedding, cutting, H and E staining, and special stains: compare, describe, evaluate, discuss, and explain the student's results to the instructor
2. Correlating results of H and E or special stains and recognize disparity, recheck, and report abnormalities to the instructor
3. Observing or performing immune histochemical staining procedures
4. Observing or performing cyto-technological staining procedures and set-up

**Competency 3:** The student will demonstrate the ability to communicate and use interpersonal skills effectively by:

1. Demonstrating ability to give and follow directions
2. Distinguishing between factual laboratory results and personal opinion
3. Recognizing the importance of courtesy and respect for patients and other laboratory personnel and maintains good interpersonal relationships
4. Following all federal and state regulations concerning patient information, or test results

**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 ethical thinking and its application to issues in society
- Demonstrate knowledge of diverse cultures, including global and historical perspectives
- Create strategies that can be used to fulfill personal, civic, and social responsibilities
- Use computer and emerging technologies effectively
- Demonstrate an appreciation for aesthetics and creative activities
- Describe how natural systems function and recognize the impact of humans on the environment