

Course Description**MLT2198L | Histochemistry Laboratory | 3.00 credits**

This course will introduce students to biochemicals used in histology with emphasis on laboratory preparation and use of histochemical and immune histochemical stains. Prerequisite: CHM1033L; corequisite: MLT2198.

Course Competencies:

Competency 1: The student will demonstrate knowledge, comprehension and application of histochemical identification of complex compounds in tissues by:

1. Preparing special stains to be used for various tissue types
2. Staining and identifying various types of tissue as well as various diseases and organisms
3. Staining and identifying pigments and minerals
4. Evaluating results of hematoxylin and eosin stains
5. Recommending changes to improperly stained H and E slides
6. Evaluating special stains of various tissue types

Competency 2: The student will demonstrate knowledge, comprehension and application of histochemical staining procedures by:

1. Recommending changes to improperly done special stains involving different tissue types
2. Listing and evaluating special staining techniques to identify foreign material, microorganisms or anatomical and pathological issues in various tissue types
3. Recommending actions for improperly performed special staining techniques

Competency 3: The student will demonstrate a rudimentary knowledge, comprehension and application of immuno-histochemical staining procedures by

1. Observing and evaluating immuno- peroxidase staining procedures
2. Explaining troubleshooting in immuno- peroxidase staining procedures

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
- Demonstrate an appreciation for aesthetics and creative activities