

HISTOTECHNICIAN (HSTO)

HSTO 1310 - Introduction to Histology (3 Credits)

Students are introduced to the procedures involved in the initial accessioning, evaluation, processing and slide preparation of various surgical and autopsy specimens. Additional topics such as safety/infection control and instrumentation are included.

Lecture: 3 hours

HSTO 1320 - Histotechnology II (6 Credits)

This course explores the principles and techniques associated with routine histological procedures as well as laboratory mathematics. The histology laboratory prepares tissues from surgical procedures and autopsies for microscopic examination by a pathologist. This course provides students with an opportunity to develop entry-level skills under the supervision of a licensed histotechnician, in a clinical setting. Skills are obtained through observation and performance of basic histological procedures. Students will also attend lecture to provide the opportunity to integrate theory and practice to various clinical scenarios.

Lecture: 3 hours, Other: 8 hours

Prerequisite(s): HSTO 1310

HSTO 2310 - Histotechnology III (9 Credits)

This course provides practical application of principles and techniques of histological practice. The clinical setting provides realistic conditions under which a histotechnician functions and allows students to refine those skills acquired in Histology II. Students are introduced to the procedures involved in the embedding, cutting H&E staining and evaluation of various surgical and autopsy specimens. Students will also experience special stains for various tissue components including connective tissues, Amyloid and Carbohydrates.

Lecture: 3 hours, Other: 16 hours

Prerequisite(s): HSTO 1320

HSTO 2320 - Histotechnology IV (14 Credits)

This course provides practical application of principles and techniques of advanced histological procedures. The clinical setting provides realistic conditions under which a histotechnician functions and allows students to refine skills acquired in Histology III. Students will refine skills in embedding, cutting tissue sections, H&E staining and evaluation of various surgical and autopsy specimens. Students experience special stains for pigments, minerals, microorganisms and Neuropathology. Students are introduced to the special procedures such as Immunohistochemistry, Enzyme Histochemistry and Electron Microscopy.

Lecture: 3 hours, Lab: 3 hours, Other: 24 hours

Prerequisite(s): HSTO 2310

Corequisite(s): HSTO 2330

HSTO 2330 - Histology Seminar (2 Credits)

This course provides students with an extensive review, as well as assistance in the preparation of a portfolio. Guest lecturers discuss advanced topics in histology and professional issues.

Lecture: 2 hours

Prerequisite(s): HSTO 2310

Corequisite(s): HSTO 2320