

Common Course Outline
HSTO 257
Histology Practicum IV
3 Credits

Community College of Baltimore County

Description

HSTO 257 – Histology Practicum IV provides the student with clinical experiences in the histopathology laboratory applying and integrating theory, skills, and concepts regarding special stains. This practicum concentrates on immunohistochemistry methods as the student participates in the supportive functions of instrument operation, quality control, troubleshooting and problem solving.

3 Credits

Prerequisite: HSTO 256

Corequisite: HSTO 260

Overall Course Objectives

Upon completion of this course students will be able to:

1. demonstrate the theory and application of special staining techniques;
2. perform special stains both manually and on an automated stainer;
3. demonstrate stains independently with supervision;
4. operate laboratory equipment related to staining;
5. perform quality control and follow all student lab procedures and practices;
6. evaluate specimen quality with a certified tech;
7. review troubleshooting problems;
8. follow safety procedures for storage and disposal of chemicals; and
9. demonstrate laboratory safety for universal precautions.

Major Topics

- I. Antibodies
- II. Immunohistochemistry (IHC) staining methods
- III. Fixation
- IV. Processing
- V. Antigen retrieval
- VI. Blocking
- VII. Antibody labeling
- VIII. Quality control
- IX. Troubleshooting

Course Requirements

Grading procedures will be determined by the individual faculty member but will include the following:

Grading/exams

- A Technical Evaluation/Checklist
- A Laboratory Practical
- A Professional Evaluation
- A Post-internship Exam
- A Clinical Objective Write-up

Written Assignments: Students are required to use appropriate academic resources.

Other Course Information

This course is a Histology program core course.

This course is part of a program sequence, which requires admission to the program.

This course is offered in the Summer only.

Date Revised: 12/05/2017