

Common Course Outline
HSTO 256
Histology Practicum III
3 Credits

Community College of Baltimore County

Description

HSTO 256 – Histology Practicum III provides the student with clinical experiences in the histopathology laboratory applying and integrating theory, skills, and concepts regarding microorganisms, pigments and minerals, and neural tissue. The student builds upon the techniques learned in previous practicums and demonstrates special stains that include microorganisms, nerve and lipids, along with participate in the supportive functions of instrument operation, quality control, troubleshooting and problem solving.

3 Credits

Prerequisite: HSTO 255

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. recognize factors that affect procedures and results and take appropriate preventative/correction action;
9. follow safety procedures for storage and disposal of chemicals; and
10. demonstrate laboratory safety for universal precautions.

Major Topics

- I. Microorganisms
 - a. Kinyoun acid-fast (AFB)
 - b. Giemsa
 - c. Brown-Hopps
 - d. Grocott Methenamine-Silver Nitrate (GMS)
- II. Minerals
 - a. Prussian blue – iron
 - b. Fontana-Masson - melanin
 - c. Hall's Bile - bilirubin

- d. Von Kossa - calcium
 - e. Rhodanine - copper
 - f. Alizarin Red S - calcium
- III. Nerve tissue
- a. Luxol fast blue
 - b. Cresyl echt violet

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 Spring only.