

Course Descriptions

CYTO501 - Introduction to Cytopathology

Clock Hours: 10

Overview of the history and significance of cytodiagnosis and its place in the modern medical laboratory. The code of ethics for the cytologist and laboratory regulations affecting Cytopathology are presented and discussed. The basics of microscopy and the care of the microscope are included using cells from squamous epithelium.

Upon completion of the lectures, exams and exercises, the student will be able to describe the history and timeline of cytology's beginnings. The student will be able to apply the knowledge to utilize and troubleshoot a microscope.

CYTO505 - Cytopreparation

Clock Hours: 66

Laboratory hands-on experience in the accessioning, preparation and staining of all types of cytologic samples. Students learn the basics and troubleshooting of the various stains utilized in the cytology laboratory using manual and automated methods and prepare slides using state of the art equipment.

Upon completion of the lectures, exams and laboratory exercises, the student will be able to demonstrate competency of accessioning, preparation, staining and coverslipping of various cytology specimens.

CYTO510 - Gynecologic Cytopathology

Clock Hours: 202

Study of the Pap test including normal cells, inflammatory reactions, neoplasia (epithelial and non-epithelial), therapy changes and miscellaneous entities. The anatomy and histology of the female reproductive system are studied as they pertain to the cytologic sample and normal versus abnormal cytologic and histologic appearances compared. The cytologic criteria of malignancy are studied in depth. Areas of study include the uterine cervix, endometrium, fallopian tubes, ovaries, vagina and vulva. Nomenclature used in Pap test reporting and the triage and treatment of patients with gynecologic neoplasia are also included.

Upon completion of lectures, exams and exercises, the student will be able to describe and differentiate non-neoplastic and neoplastic gynecologic entities. Students will be able to interpret and diagnose gynecologic specimens.

CYTO515 - Gynecologic Cytology Practicum

Clock Hours: 261

Instruction and supervised practice in the screening of Pap tests using conventional and liquid based slide preparations. Emphasis is placed first on accuracy and then on the building of speed in the screening process so that slides can be completed in a reasonable time with correct diagnoses. Detector and diagnostic skill building is at the core of this course.

