CYTO - Cytotechnology

CYTOTECHNOLOGY Courses

CYTO 403. Gynecological Screening Laboratory. 3 Credits.
Laboratory experience in the screening of gynecological smears. Prerequisites: Acceptance into the Cytotechnology Program and/or permission of the cytotechnology program director. Pre- or corequisite: CYTO 405 and CYTO 415.

CYTO 404. General Pathology. 3 Credits.
This course is an overview of general disease processes and causes in the human. All body systems will be covered including respiratory, gastrointestinal, circulatory, nervous, reproductive, and urinary. Aging, dietary, and stress factors will be discussed in the disease process. Bacteria, fungi, and viruses will be discussed in general and for each body system. Neoplasms will be covered for each body site. This course will be of benefit to anyone interested in diseases of the human body or entering the medical field. (cross listed with MLS 401) Prerequisites: junior standing. Pre- or corequisite: BIOL 250 and BIOL 251 or equivalent.

CYTO 405. Normal Gynecological Cytology. 3 Credits.
Introduction to histological and cytological features of the normal female genital tract with emphasis on normal and non-neoplastic abnormalities. Principles of cytological diagnostic techniques will be discussed. Prerequisites: Acceptance into the Cytotechnology Program or permission of program director. Pre- or corequisite: CYTO 403.

CYTO 407. Clinical Histology. 3 Credits.
This course consists of the systematic study of cellular components as well as the grouping/organization of tissues into major ‘organ’ systems. Microscopic and virtual identification and morphology of cells, tissues, and organ substructures will be emphasized. This course will be of benefit to anyone interested in diseases of the human body or entering the medical field. Prerequisites: permission of the instructor.

CYTO 415. Abnormal Gynecological Cytology. 4 Credits.
Introduction to diagnostic cytological techniques and pathology of the female reproductive tract with emphasis on premalignant and malignant changes. Pre- or corequisite: CYTO 403 and CYTO 405.

CYTO 424. Respiratory Cytology. 4 Credits.
Principles of diagnostic cytology and pathology of the respiratory tract, including benign conditions, inflammatory and infectious diseases, premalignant conditions and primary and metastatic malignancies. Prerequisites: Admission to the cytotechnology program. Pre- or corequisite: CYTO 405 and CYTO 415.

CYTO 425W. Cytopreparatory Techniques and Procedures. 3 Credits.
Introduction to collection, processing and preparation of cytologic specimens from all body sites and general laboratory procedures and regulations. A portion of this course consists of practical experience acquired in the laboratory. Practical experience will be performed during clinical site rotations throughout the Cytotechnology Program. Students will learn how to properly write lab reports and papers related to health science fields. This is a writing intensive course. Prerequisites: Pre-admission to the Cytotechnology Program or Program Director permission; completion of ENGL 110C and ENGL 211C or ENGL 221C or ENGL 231C with a grade of C or higher.

CYTO 442. Gastro-Inestinal Cytology. 2 Credits.
Study of the pathology and cytology of the gastro-intestinal tract, including the oral cavity, esophagus, stomach, colon, and rectum. Emphasis on normal conditions, benign inflammatory, infections, parasitic conditions, gastric ulcers, premalignant and malignant lesions. Pre- or corequisite: CYTO 405 and CYTO 415.

CYTO 444. Genitourinary Cytology. 2 Credits.
Study of the pathology and cytology of the genitourinary tract, with emphasis in normal conditions, benign inflammatory and infectious conditions, crystals, premalignant and malignant lesions. Pre- or corequisite: CYTO 405 and CYTO 415.

CYTO 445. Breast Cytology. 2 Credits.
Study of pathology and cytology of the breast, with emphasis on benign, inflammatory conditions, premalignant and malignant disease in both breast smears and fine needle aspirations. Prerequisite: CYTO 407. Pre- or corequisite: CYTO 405 and CYTO 415.

CYTO 446. Body Fluids Cytology. 3 Credits.
Study of the pleural, peritoneal and pericardial cavity fluids, synovial and cerebral spinal fluids, with emphasis on benign, inflammatory conditions, and primary and metastatic malignancies. Prerequisite: CYTO 407. Pre- or corequisite: CYTO 405 and CYTO 415.

CYTO 448. Non-EPithelial Cytology. 1 Credit.
Study of the pathology and cytology of non-epithelial lesions with emphasis on benign, inflammatory, and malignant conditions. Prerequisites: Admission to the cytotechnology program. Pre- or corequisite: CYTO 405, CYTO 415, CYTO 424, CYTO 444, CYTO 445, and CYTO 446.

CYTO 455. Fine Needle Aspiration. 6 Credits.
Study of specialized collection techniques, processing and diagnosis of fine needle aspirations from various body sites, including, but not limited to, thyroid, liver, lymph nodes, pancreas, lung, kidney, etc. Emphasis will be on benign, inflammatory, primary, and metastatic malignancies of all sites. Clinical practical application of these principles will be continued at the clinical sites. Prerequisite: CYTO 403. Pre- or corequisite: CYTO 405, CYTO 415, CYTO 424, CYTO 444, CYTO 445, and CYTO 446.

CYTO 458. Cytology Internship I. 3 Credits.
Directly supervised experience in a clinical setting: includes evaluation of gynecologic smears and study set assignments. Students will be exposed to cytopreparatory techniques. Pre- or corequisite: CYTO 405 and CYTO 415.

CYTO 468. Cytology Internship II. 4 Credits.
Directly supervised experience in a clinical setting. Includes evaluation of gynecologic and non-gynecologic specimen slides and study set assignments. Students will pre-screen gynecologic and non-gynecologic smears and study set assignments. Students will be exposed to cytopreparatory techniques. Pre- or corequisite: CYTO 405, CYTO 415, CYTO 424, CYTO 444, CYTO 445, and CYTO 446.

CYTO 478. Cytology Internship III. 8 Credits.
Directly supervised experience in a clinical setting. Includes evaluation of gynecologic and non-gynecologic smears and study set assignments. Students will be exposed to cytopreparatory techniques. Pre- or corequisite: CYTO 405, CYTO 415, CYTO 424, CYTO 444, CYTO 445, CYTO 446, and CYTO 445.

CYTO 495. Topics in Cytology. 1-3 Credits.
Independent study of selected topics in clinical cytology. Review of cytologic specimens from various body sites. Prerequisites: permission of the program director.

CYTO 497. Cytology Senior Seminar. 1 Credit.
Supervised experience consists of clinical cases and seminar presentations into current advances within the specialty of clinical cytology. A student research project and oral presentation of current journal articles and the research paper are required. Prerequisites: permission of the program director.

CYTO 498. Topics. 1-3 Credits.