CYTO - Cytotechnology

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 MEDT 401) 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. 3 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. Pre- or
corequisite: CYTO 405 and CYTO 415.

CYTO 428W. Cytopreparatory Techniques and Procedures. 3 Credits.
Introduction to collection, processing and preparation of cytopsinic 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 perfected during clinical site
rotations throughout the Cytotechnology Program. The course is also a
writing intensive course. Students will learn how to properly write lab
reports and papers related to health science fields. 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-Intestinal 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
cconditions, 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. 3 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. Pre- or corequisite: CYTO 405 and
CYTO 415.

CYTO 446. Body Fluids Cytology. 2 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. Pre- or corequisite: CYTO 405
and CYTO 415.

CYTO 448. Non-Epithelial Cytology. 2 Credits.
Study of the pathology and cytology of non-epithelial lesions with
emphasis on benign, inflammatory, and malignant conditions. Pre-
corequisite: CYTO 405, CYTO 415, CYTO 424, CYTO 444, CYTO 445,
and CYTO 446.

CYTO 455. Fine Needle Aspiration. 5 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. 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. (qualifies as a CAP experience) 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. (qualifies as a CAP experience) Pre-
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. (qualifies as a
CAP experience) Pre- or corequisite: CYTO 405, CYTO 415, CYTO 424,
CYTO 444, CYTO 445, and CYTO 446.

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. 2 Credits.
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.