Cytotechnology (CYT)

CYT 210. Intro to Clinical Cyto. 4.0 Credits. Class-4.0. Clinical-0.0. Lab-0.0. Work-0.0
This course provides an overview of the fundamentals of cell biology, basic histology, and pathology of tumors as they relate to clinical cytology. Topics include basic sciences, as well as inflammatory processes, morphology and classification of microorganisms, and basic clinical cytological terminology. Upon completion, students should be able to discuss the basic histological and pathological concepts common to the diagnostic cytology of all body systems.
Corequisites: Take CYT 212, CYT 214, CYT 216 and CYT 222

CYT 212. Intro to Cyto Techniques. 4.0 Credits. Class-4.0. Clinical-0.0. Lab-0.0. Work-0.0
The course covers care and use of the light microscope and histological and cytological specimen preparation techniques and equipment. Topics include laboratory safety, chemical hygiene, universal precautions, and fundamentals of staining and fixation. Upon completion, students should be able to discuss and demonstrate the care and use of the microscope and discuss basic concepts of staining and fixation.
Corequisites: Take CYT 210, CYT 214, CYT 216 and CYT 222

CYT 214. Gynecological Cytology. 14.0 Credits. Class-8.0. Clinical-0.0. Lab-12.0. Work-0.0
This course covers gynecological cytology, including normal anatomy, physiology, histology, cytology, malignancies, and treatment modalities. Topics include hormonal cytology, microorganisms and their manifestations, precursor lesions, and carcinomas. Upon completion, students should be able to demonstrate competence in cytological criteria and gynecological cytology.
Corequisites: Take CYT 210, CYT 212, CYT 216 and CYT 222

CYT 216. Clin & Diag Interp I. 4.0 Credits. Class-4.0. Clinical-0.0. Lab-0.0. Work-0.0
This course covers cytological criteria for representative cytological and histological specimens. Emphasis is placed on the cytology and histology of the female reproductive system. Upon completion, students should be able to demonstrate competence in the application of cytological criteria for gynecological cytology.
Corequisites: Take CYT 210, CYT 212, CYT 214 and CYT 222

CYT 220. Non-Gynecological Cytology. 12.0 Credits. Class-8.0. Clinical-0.0. Lab-8.0. Work-0.0
This course covers non-gynecological cytology and fine needle aspiration biopsy of all body sites. Topics include the anatomy, histology, pathology, and cytopathology of the respiratory system, alimentary canal, body cavities, urinary tract, and breast and aspiration cytology. Upon completion, students should be able to demonstrate competence in the use of cytological criteria as applied to non-gynecological cytology.
Prerequisites: Take All: CYT 210, CYT 212, CYT 214, CYT 216, and CYT 222
Corequisites: Take CYT 224, CYT 226, CYT 236 and CYT 238

CYT 222. Cytopreparation Technique. 2.0 Credits. Class-2.0. Clinical-0.0. Lab-0.0. Work-0.0
This course covers the fundamental principles of cytopreparation for histological and cytological specimens. Emphasis is placed on techniques related to cytopreparation. Upon completion, students should be able to demonstrate competence in the various cytopreparation methods.
Corequisites: Take CYT 210, CYT 212, CYT 214 and CYT 216

CYT 224. Gynecological Cytology Clinical Practicum I. 4.0 Credits. Class-0.0. Clinical-12.0. Lab-0.0. Work-0.0
This course provides supervised clinical experience in gynecological cytological procedures. Emphasis is placed on cytological diagnosis by routine screening methods. Upon completion, students should be able to demonstrate mastery of all diagnostic skills with a minimum competence of 80%.
Prerequisites: Take All: CYT 210, CYT 212, CYT 214, CYT 216, and CYT 222
Corequisites: Take CYT 220, CYT 226, CYT 236 and CYT 238

CYT 226. Clinical & Diagnostic Interpretation II. 4.0 Credits. Class-4.0. Clinical-0.0. Lab-0.0. Work-0.0
This course covers cytological criteria for representative cytological and histological specimens. Emphasis is placed on the cytology and histology of all areas of non-gynecological cytology and fine needle aspiration biopsy. Upon completion, students should be able to demonstrate competence in the use of cytological criteria for non-gynecological cytology and fine needle aspiration biopsy.
Prerequisites: Take All: CYT 210, CYT 212, CYT 214, CYT 216, and CYT 222
Corequisites: Take CYT 220, CYT 224, CYT 236 and CYT 238

CYT 230. Non-Gynecological Cytology Clinical Practicum. 2.0 Credits. Class-0.0. Clinical-6.0. Lab-0.0. Work-0.0
This course provides supervised clinical experience in non-gynecological cytological procedures. Emphasis is placed on differential diagnosis in non-gynecological cytology. Upon completion, students should be able to demonstrate mastery of all diagnostic skills with a minimum competence of 80%.
Prerequisites: Take All: CYT 220, CYT 224, CYT 226, CYT 236, and CYT 238
Corequisites: Take CYT 232 and CYT 234

CYT 232. Clinical Cytology Practicum. 1.0 Credit. Class-0.0. Clinical-3.0. Lab-0.0. Work-0.0
This course provides supervised clinical experience in a variety of clinical settings. Emphasis is placed on teamwork in the clinical setting with utilization of cytdiagnostic and cytopreparation skills. Upon completion, students should be able to function effectively as an entry-level cytotecnologist.
Prerequisites: Take All: CYT 220, CYT 224, CYT 226, CYT 236, and CYT 238
Corequisites: Take CYT 230 and CYT 234

CYT 234. Gynecological Cytology Clinical Practicum II. 3.0 Credits. Class-0.0. Clinical-9.0. Lab-0.0. Work-0.0
This course provides supervised clinical experience in gynecological cytological procedures. Emphasis is placed on the development of solid working criteria in routine cytology screening. Upon completion, students should be able to demonstrate mastery of all diagnostic skills with a minimum competence of 80%.
Prerequisites: Take All: CYT 220, CYT 224, CYT 226, CYT 236, and CYT 238
Corequisites: Take CYT 230 and CYT 232
Cytology Literature Review. 1.0 Credit. Class-1.0. Clinical-0.0. Lab-0.0. Work-0.0
This course covers the development of a scientific, cytology-oriented research paper. Emphasis is placed on the development and presentation of a research proposal utilizing scientific methods, literature reviews, and interpretation of data. Upon completion, students should be able to prepare a scientific research paper based on the scientific method.
Prerequisites: Take All: CYT 210, CYT 212, CYT 214, CYT 216, and CYT 222
Corequisites: Take CYT 220, CYT 224, CYT 226 and CYT 238

Cyt Professional Issues. 2.0 Credits. Class-2.0. Clinical-0.0. Lab-0.0. Work-0.0
This course covers the essentials of laboratory organization and management, the fundamentals of laboratory accreditation, and basic principles and applications of immunocytochemistry. Emphasis is placed on discussions of articles from current cytology journals with applications to the practice of cytopathology.
Prerequisites: Take All: CYT 210, CYT 212, CYT 214, CYT 216, and CYT 222
Corequisites: Take CYT 220, CYT 224, CYT 226 and CYT 236