

CYTOTECHNOLOGY (CT)

CT 301: Principles of Cell Analysis

Introduction to cell identification methods and morphologic criteria used in the evaluation of cytology specimens. Emphasis on manual and digital microscopy for detection and interpretation of basic cell types and changes found in conventional and liquid-based cytology specimens. Lecture and Laboratory.

Credits: 2

College: Jefferson College of Health Professions

Schedule Type: Lab, Lecture, Lecture/Lab

CT 310: Cyto&Surg Pathology Techniques

Credits: 2

College: Jefferson College of Health Professions

Schedule Type: Lab, Lecture, Lecture/Lab

CT 311: Cytopathology I

Study of the anatomy, physiology, cytology and pathophysiology of the female genital tract and corresponding cellular manifestations which provide diagnostic information.

Credits: 5

College: Jefferson College of Health Professions

Prerequisites: CT 301

Schedule Type: Lecture

CT 312: Cytopathology I Laboratory

Integration of didactic information pertaining to the female genital tract with application of diagnostic criteria to develop practical analytical expertise. Students interpret laboratory data, explain the significance of the data to the patient's condition and offer the interpretation and/or recommendations for further testing. Laboratory sessions include independent microscopy following by the evaluation of the students' diagnosis/readouts via one-on-one and multihead sessions.

Credits: 3.5

College: Jefferson College of Health Professions

Prerequisites: CT 301

Schedule Type: Lab

CT 315: Cytopathology II

Study of the anatomy, physiology, cytology and pathophysiology of the respiratory tract (including lung FNA's), Fine needle aspiration cytology of mediastinum, breast, liver, pancreas, salivary glands, and adrenals with application of cytohistologic and molecular diagnostic criteria to develop practical analytical expertise. Students interpret laboratory data, explain the significance of the data to a patient's condition and offer diagnostic interpretations and/or recommendations for further testing. Lecture and Laboratory.

Credits: 5

College: Jefferson College of Health Professions

Prerequisites: CT 311 and CT 312

Schedule Type: Lecture/Lab

CT 317: Cytopathology III

Study of the anatomy, physiology, cytology and pathophysiology of the gastrointestinal tract, kidney and urogenital system, fine needle aspiration cytology of thyroid, bone, and soft tissues and cytology of body fluids including urine, CSF, and effusions with application of cytohistologic and molecular diagnostic criteria to develop practical analytical expertise. Students interpret laboratory data, explain the significance of the data to a patient's condition and offer diagnostic interpretations and/or recommendations for further testing. Lecture and Laboratory.

Credits: 5.5

College: Jefferson College of Health Professions

Prerequisites: CT 311 and CT 312

Schedule Type: Lecture, Lecture/Lab

CT 325: CellularMolecular&ImmunoDiagno

This course is designed to educate students the in integration of morphologic cellular findings, the patient's clinical history and findings from immunochemistry and molecular testing for the formulation of a precise diagnosis, prognosis and therapy. Students will learn and practice an interprofessional approach to patient care and management, review relevant peer-reviewed publications, experience digital-image based microscopy, and cover the theory and practical knowledge of various companion testing modalities.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: CT 311 and CT 312

Schedule Type: Lab, Lecture, Lecture/Lab

CT 375: Cytotechnology Seminar

This course is designed to allow entry-level students to evaluate their readiness for the CT BOC examination, promote proficiency in entry-level competencies and gain competence in computer-guided screening. Students explore personal and professional development related to the transition into the workplace. Topics include certification preparedness (all disciplines of cytotechnology practice), resume development and training in computer-guided screening technology.

Credits: 2

College: Jefferson College of Health Professions

Schedule Type: Hybrid, Lab, Lecture, Lecture/Lab, On-Line

CT 412: Cytotechnology Practicum I

Clinical internships are assigned in a variety of cytopathology laboratories to provide diversity of the students' experience. Students participate in all phases of diagnostic service work and laboratory functions (pre-analytical, analytical, and post-analytical), which may include continuing education and in-service programs, adjunct diagnostic technologies and attendance at specimen collection procedures. Students gain experience in (i) light microscopy, evaluation and reporting of all kind of cytological specimens (conventional, liquid-based cytospin, and cell blocks) and (ii) fluorescent microscopy and other ancillary molecular and immuno diagnostic techniques. Participation in ROSE, telepathology, cyto & histo preparatory processes, and the recommendation, application and interpretation of special stains and immunodiagnostic panels is advised per availability in the clinical rotation sites.

Credits: 3

College: Jefferson College of Health Professions

Schedule Type: Clinical, Practicum

CT 413: Cytotechnology Practicum II

Clinical internships are assigned in a variety of cytopathology laboratories to provide diversity of the students' experience. Students participate in all phases of diagnostic service work and laboratory functions (pre-analytical, analytical, and post-analytical), which may include continuing education and in-service programs, adjunct diagnostic technologies and attendance at specimen collection procedures. Students gain experience in (i) light microscopy, evaluation and reporting of all kind of cytological specimens (conventional, liquid-based cytospin, and cell blocks) and (ii) fluorescent microscopy and other ancillary molecular and immuno diagnostic techniques. Participation in ROSE, telepathology, cyto & histo preparatory processes, and the recommendation, application and interpretation of special stains and immunodiagnostic panels is advised per availability in the clinical rotation sites.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: CT 325

Schedule Type: Clinical, Lab, Lecture/Lab, Practicum

CT 414: Cytotechnology Practicum III

Clinical internships are assigned in a variety of cytopathology laboratories to provide diversity of the students' experience. Students participate in all phases of diagnostic service work and laboratory functions (pre-analytical, analytical, and post-analytical), which may include continuing education and in-service programs, adjunct diagnostic technologies and attendance at specimen collection procedures. Students gain experience in (i) light microscopy, evaluation and reporting of all kind of cytological specimens (conventional, liquid-based cytospin, and cell blocks) and (ii) fluorescent microscopy and other ancillary molecular and immuno diagnostic techniques. Participation in ROSE, telepathology, cyto & histo preparatory processes, and the recommendation, application and interpretation of special stains and immunodiagnostic panels is advised per availability in the clinical rotation sites.

Credits: 3

College: Jefferson College of Health Professions

Schedule Type: Clinical, Practicum

CT 415: Cytotechnology Practicum IV

Clinical internships are assigned in a variety of cytopathology laboratories to provide diversity of the students' experience. Students participate in all phases of diagnostic service work and laboratory functions (pre-analytical, analytical, and post-analytical), which may include continuing education and in-service programs, adjunct diagnostic technologies and attendance at specimen collection procedures. Students gain experience in (i) light microscopy, evaluation and reporting of all kind of cytological specimens (conventional, liquid-based cytospin, and cell blocks) and (ii) fluorescent microscopy and other ancillary molecular and immuno diagnostic techniques. Participation in ROSE, telepathology, cyto & histo preparatory processes, and the recommendation, application and interpretation of special stains and immunodiagnostic panels is advised per availability in the clinical rotation sites.

Credits: 3

College: Jefferson College of Health Professions

Schedule Type: Clinical, Practicum

CT 416: Comprehensive Exam

Credits: 0

College: Jefferson College of Health Professions

Schedule Type: Exam, On-Line