

CYTOTECHNOLOGY & CELL SCIENCES (BS/MS)

Contacts

Program Director: Kelly Lennen, MS, CT (ASCP)

Email: Kelly.Lennen@jefferson.edu

215-503-2806

Campus: Center City

Program Website (<https://www.jefferson.edu/academics/colleges-schools-institutes/health-professions/departments-programs/medical-laboratory-biotechnology/degrees-programs/bs-programs/cytotechnology-cell.html>)

Program Description

Cytotechnologists are experts of cell and tissue morphology and function and the use of microscopes, automated imaging systems and sophisticated laboratory techniques to detect and diagnose diseases. Cytotechnologists work both independently and collaboratively with pathologists, radiologists, oncologists and other members of a healthcare team.

Professionals in this field:

- Select and perform molecular and immunologic tests that help to personalize patient care
- Diagnose mysterious respiratory illnesses
- Assist clinicians in collecting and evaluating specimens
- Identify precancerous cells at their earliest and most curable stage

Curriculum: 2 years

- Credits Required for Admissions: 82

Course	Title	Credits
First Year		
Fall		
Undergraduate Phase		
LS 301	Molecular Biology	3
LS 311	Functional Histology	2.5
CT 301	Principles of Cell Analysis	2
CT 311	Cytopathology I	5
CT 312	Cytopathology I Laboratory	3.5
LS 331	Immunology	3
Program approved elective		3
Credits		22
Spring		
LS 540	Current Resrch in Biosciences	3
LS 310	Intro to Molecular Diagnostics	2
CT 310	Cyto&Surg Pathology Techniques	2
CT 315	Cytopathology II	5
CT 317	Cytopathology III	5.5
Credits		17.5
Second Year		
Fall		
GRADUATE PHASE		
LS 603	Research Design	2
LS 640	Methods in Bioscience Edu	3
CT 812	Cytotechnology Practicum I	3
CT 813	Cytotechnology Practicum II	3

Course	Title	Credits
LS 644	Laboratory Ed and Instruction (or Program approved elective) ¹	1-4
Credits		12-15
Spring		
LS 610	Reg & Fis Issues in Lab. Mgmt	3
LS 613	Pathology	2
LS 803	Contemporary Topics Research	2
CT 814	Cytotechnology Practicum III	3
CT 525	CellularMolecular&ImmunoDiagno	3
CT 815	Cytotechnology Practicum IV	3
CT 816	Comprehensive Exam	0
CT 575	Cytotechnology Seminar	2
Credits		18
Total Credits		69.5-72.5

¹ LS 644 requires program approval