

# CYTOTECHNOLOGY & CELL SCIENCES (BS)

## Contacts

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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 structure morphology and function, and using 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, 66.5 Credits

- Credits Required for Admission: 55

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
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
Designated Electives		3
<b>Credits</b>		<b>19</b>
<b>Spring</b>		
LS 413	Pathology	2
CT 310	Cyto&Surg Pathology Techniques	2
LS 310	Intro to Molecular Diagnostics	2
CT 315	Cytopathology II	5
CT 317	Cytopathology III	5.5
<b>Credits</b>		<b>16.5</b>
<b>Second Year</b>		
<b>Fall</b>		
LS 331	Immunology	3
CT 412	Cytotechnology Practicum I	3
CT 413	Cytotechnology Practicum II	3
Designated Electives		6
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
LS 440	Current Resrch in Biosciences	2
CT 414	Cytotechnology Practicum III	3

Course	Title	Credits
CT 415	Cytotechnology Practicum IV	3
CT 416	Comprehensive Exam	0
CT 325	CellularMolecular&ImmunoDiagno	3
LS 430	Lab Standards & Practices	3
CT 375	Cytotechnology Seminar	2
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>66.5</b>

## Curriculum: 1 Year, 57.5 Credits

- Credits Required for Admission: 70

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
CT 301	Principles of Cell Analysis	2
CT 311	Cytopathology I	5
CT 312	Cytopathology I Laboratory	3.5
LS 301	Molecular Biology	3
LS 311	Functional Histology	2.5
LS 331	Immunology	3
<b>Credits</b>		<b>19</b>
<b>Spring</b>		
LS 413	Pathology	2
LS 440	Current Resrch in Biosciences	2
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
CT 325	CellularMolecular&ImmunoDiagno	3
<b>Credits</b>		<b>21.5</b>
<b>Summer</b>		
CT 416	Comprehensive Exam	0
LS 430	Lab Standards & Practices	3
CT 412	Cytotechnology Practicum I	3
CT 413	Cytotechnology Practicum II	3
CT 414	Cytotechnology Practicum III	3
CT 415	Cytotechnology Practicum IV	3
CT 375	Cytotechnology Seminar	2
<b>Credits</b>		<b>17</b>
<b>Total Credits</b>		<b>57.5</b>