

MEDICAL LABORATORY SCIENCE (BS)

Contacts

Program Director: Valerie Jalicke, MS, MLS(ASCP)CM

Email: Valerie.Jalicke@jefferson.edu
215-503-2792

Campus: Center City

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

Program Description

Medical laboratory scientists work behind the scenes in laboratories to provide clinicians with test results needed to diagnose, treat, and manage their patients' conditions. Blood, body fluids, and other patient specimens are analyzed using manual methods and state-of-the-art instrumentation to test for conditions such as diabetes, heart disease, infection, anemia, and leukemia.

Curriculum: 2 years, 66 credits

Course	Title	Credits
First Year		
Fall		
LS 301	Molecular Biology	3
LS 331	Immunology	3
MLS 300	Intro to Medical Lab Science	1
MLS 312	Clinical Microbiology I	4
MLS 323	Clinical Chemistry I	3.5
MLS 341	Clinical Hematology I	3
MLS 351	Immunohematology I	3
Credits		20.5
Spring		
LS 310	Intro to Molecular Diagnostics	2
MLS 313	Clinical Microbiology II	3.5
MLS 343	Clinical Hematology II	3
MLS 324	Clinical Chemistry II	3
MLS 352	Immunohematology	3
MLS 376	Urinalysis and Body Fluids	3
Credits		17.5
Second Year		
Fall		
MLS 412	Med Lab Sci Practicum I	3
MLS 422	Med Lab Sci Practicum II	3
Designated Electives		6
Credits		12
Spring		
LS 430	Lab Standards & Practices	3
LS 440	Current Resrch in Biosciences	2
MLS 375	Medical Laboratory Science Sem	2
MLS 416	Comprehensive Exam	0
MLS 442	Med Lab Sci Practicum III	3
MLS 454	Med Lab Sci Practicum IV	3
Designated Electives		3
Credits		16
Total Credits		66

Curriculum: 1 year, 55 credits

- Credits Required for Admissions: 70

Course	Title	Credits
First Year		
Fall		
LS 301	Molecular Biology	3
LS 331	Immunology	3
MLS 300	Intro to Medical Lab Science	1
MLS 312	Clinical Microbiology I	4
MLS 323	Clinical Chemistry I	3.5
MLS 341	Clinical Hematology I	3
MLS 351	Immunohematology I	3
Credits		20.5
Spring		
LS 310	Intro to Molecular Diagnostics	2
LS 440	Current Resrch in Biosciences	2
MLS 313	Clinical Microbiology II	3.5
MLS 324	Clinical Chemistry II	3
MLS 343	Clinical Hematology II	3
MLS 352	Immunohematology	3
MLS 376	Urinalysis and Body Fluids	3
Credits		19.5
Summer		
LS 430	Lab Standards & Practices	3
MLS 412	Med Lab Sci Practicum I	3
MLS 416	Comprehensive Exam	0
MLS 422	Med Lab Sci Practicum II	3
MLS 442	Med Lab Sci Practicum III	3
MLS 454	Med Lab Sci Practicum IV	3
Credits		15
Total Credits		55