

Bachelor of Science in Medical

Laboratory Science

Medical Laboratory Science (BSMLS)

Degree Program Guide

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Course	Title	Credit Hours
Freshman		
Fall		
ENGL 110C	English Composition	3
MATH 102M or MATH 103M	College Algebra or College Algebra with Supplemental Instruction	3
BIOL 121N	General Biology I	3
BIOL 122N	General Biology I Lab	1
Human Creativity		3
CHEM 103 may be needed as prerequisite to CHEM 121N (3 credits)		
Credit Hours		13
Spring		
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research or Writing, Rhetoric, and Research: Special Topics	3
CHEM 121N	Foundations of Chemistry I Lecture	3
CHEM 122N	Foundations of Chemistry I Laboratory	1
STAT 130M	Elementary Statistics	3
Interpreting the Past		3
Information Literacy		3
Credit Hours		16
Sophomore		
Fall		
MLS 210	Orientation to Medical Laboratory Science	1
CHEM 123N	Foundations of Chemistry II Lecture	3
CHEM 124N	Foundations of Chemistry II Laboratory	1
BIOL 250	Human Anatomy and Physiology I	4
Literature		3
Human Behavior		3
Credit Hours		15
Spring		
BIOL 251	Human Anatomy and Physiology II	4
CHEM 211	Organic Chemistry I Lecture	3

CHEM 212	Organic Chemistry I Laboratory	2
Impact of Technology (Option D 300/400)		3
Philosophy and Ethics (Option D 300/400)		3
Credit Hours		15
Junior		
Fall		
MLS 307	Clinical Methods in Microbiology	1
MLS 308	Clinical Microbiology	2
MLS 311	Hematology	3
MLS 312	Hematology Laboratory	1
MLS 324	Clinical Chemistry I	3
MLS 325	Clinical Chemistry I Methods	1
MLS 330	Clinical Immunology/Serology	2
MLS 331	Clinical Immunology/Serology Laboratory	1
Credit Hours		14
Spring		
MLS 309	Medical Bacteriology	3
MLS 319	Medical Bacteriology Methods	2
MLS 310	Urinalysis and Body Fluids	1
MLS 313	Diagnostic Methods in Urinalysis	1
MLS 326	Immunochemistry	3
MLS 336	Immunochemistry Laboratory	1
MLS 328	Advanced Hematology and Hemostasis	2
MLS 340	Medical Parasitology, Mycology, and Virology	1
MLS 339	Medical Parasitology and Mycology Laboratory	1
MLS 351	Clinical Chemistry II	3
Credit Hours		18
Summer		
MLS 420	Blood Collection Techniques	2
MLS 454	Clinical Blood Bank Practicum	4
Credit Hours		6
Senior		
Fall		
MLS 440	Statistical Applications and Data Analysis in the Clinical Laboratory	3
MLS 406	Clinical Microbiology Practicum	5
MDTS 401	Molecular Diagnostics Laboratory	3
Credit Hours		11
Spring		
MLS 404	Clinical Hematology Practicum	4
MLS 452	Clinical Biochemistry Practicum	5
MLS 457	Medical Laboratory Science Seminar	1

MLS 403W	Management in the Clinical Setting	3
Credit Hours		13
Total Credit Hours		121