

## Medical Laboratory Science BS Four-Year Plan

FALL	SPRING
<b>First Year</b>	
BISC 207 - Introductory Biology I and BISC 217	BISC 208 - Introductory Biology II and BISC 218
CHEM 103 - General Chemistry and CHEM 133 - General Chemistry Laboratory	CHEM 104 - General Chemistry and CHEM 134 - General Chemistry Laboratory
Mathematics Requirement*	ENGL 110 - First-Year Writing
MMSC 100 - Introduction to Medical and Molecular Sciences	MMSC 200 - The Language of Medicine
Breadth Requirement (1/5)	
First Year Seminar	
Credits: 16	Credits: 14
<b>Second Year</b>	
BISC 306 - General Physiology	BISC 300/310 - Introduction to Microbiology
CHEM 213 - Elementary Organic Chemistry or CHEM 321 - Organic Chemistry I	CHEM 214 - Elementary Biochemistry or CHEM 322 - Organic Chemistry II
CHEM 215 - Elementary Organic Chemistry Laboratory or CHEM 325 - Organic Chemistry Laboratory I	CHEM 216 - Elementary Biochemistry Laboratory or CHEM 326 - Organic Chemistry Laboratory II
MMSC 250 - Communication, Education, & Ethics in Healthcare	Breadth Requirement (should satisfy Multicultural Requirement) (4/5)
Breadth Requirement (2/5)	Breadth Requirement (should satisfy Second Writing Requirement) (5/5)

<b>FALL</b>	<b>SPRING</b>
Breadth Requirement (3/5)	
Credits: 14	Credits: 15
<b>Third Year</b>	
MMSC 415 - Clinical Immunology and Medical Virology	MMSC 407 - Clinical Physiological Chemistry I
MMSC 416 - Clinical Immunology and Medical Virology Laboratory	MMSC 417 - Clinical Physiological Chemistry Laboratory I
MMSC 370 - Phlebotomy and Specimen Processing	MMSC 409 - Immunohematology I
MMSC 375 - Biostatistics for the Biological and Health Sciences	MMSC 419 - Immunohematology I Laboratory
MMSC 402 - Body Fluid Analysis	MMSC 423 - Hematology I
MMSC 412 - Body Fluid Analysis Laboratory	MMSC 424 - Hematology I Laboratory
MMSC 491 - Human Molecular Genetics	MMSC 428 - Medical Microbiology and Parasitology
	MMSC 429 - Medical Microbiology and Parasitology Laboratory
	MMSC 493 - Cellular and Molecular Diagnostic Techniques
Credits: 13	Credits: 17
<b>Fourth Year</b>	
MMSC 418 - Senior Seminar I	MMSC 470 - Case-Based Differential Diagnostics (Winter Session)

<b>FALL</b>	<b>SPRING</b>
MMSC 420 - Immunohematology II & MMSC 421 - Immunohematology II Laboratory	MMSC 471 - Laboratory Practice and Leadership II
MMSC 433 - Hematology II & MMSC 434 - Hematology II Laboratory	MMSC 473 - Clinical Chemistry and Body Fluid Analysis Practicum (Capstone and DLE)
MMSC 436 - Clinical Physiological Chemistry II	MMSC 475 - Clinical Hematology Practicum
MMSC 437 - Clinical Laboratory Instrumentation	MMSC 477 - Clinical Microbiology and Immunology Practicum
MMSC 438 - Diagnostic Bacteriology and Medical Mycology & MMSC 439 - Diagnostic Bacteriology and Medical Mycology Laboratory	MMSC 479 - Clinical Immunohematology Practicum
MMSC 461 - Laboratory Practice and Leadership I	MMSC 480 - Senior Seminar II
Credits: 18	Credits: 15
<b>Total Credits: 122</b>	

\*MATH114 or higher required for this program; Higher level math may be required for some professional programs including medical/dental school, etc.

**Disclaimer:** Four-Year Plans are a Departmental suggestion of how a student could complete this degree in four years (eight semesters). Students may opt to take courses in the summer or winter sessions. These plans do not take into account additional requirements brought on by minors or other majors. A Four-Year Plan is subject to change from year-to-year given the resources and focuses of the Department. It is the student's responsibility to meet with his or her assigned advisor at least once a semester to monitor progress and ensure that he or she is on track to graduate on time. This document is intended as a supplemental advisement tool to be used in conjunction with in-person advisement and the Degree Audit. Students should direct any questions or concerns regarding degree progress to their advisor or Academic Assistant Dean.