

BS in Medical Laboratory Sciences Course List 2026-27

Courses (121 hours total): *Must have a C or better; **Must have a B or better	Semester offered			Pre-requisite(s)
	Fall	Spring	Summer	
MLSC 11003 Making Connections (not required for transfer students)	x			
General Education (35 hours)				
*MATH 11003- College Algebra (or any MATH course that requires MATH 11003 as a prerequisite)	x	x	x	
ENGL 10103 Composition I	x	x	x	
ENGL 10203 Composition II	x	x	x	
*CHEM 14201+14203 - General Chemistry I + lab	x	x	x	
*BIOL 20001+20003 - Microbiology for Nursing and Allied Health + Lab	x	x		
3 hours of Fine Arts	x	x	x	
3 hours of Humanities	x	x	x	

3 hours of Departmental Option (Oral Com, Arts, Humanities, or Social Sciences)	x	x	x	
9 hours of Social Sciences including one course of HIST 2763, HIST 2773, or POSC 2103	x	x	x	

Major Core Courses/Program Pre-requisites (18 hours):

*BIOL 24001+24003 - Human Anatomy and Physiology I + Lab	x	x	x	
*BIOL 24101+24103 - Human Anatomy and Physiology II + Lab	x	x	x	BIOL 24001+24003
*CHEM 14201+14203 - General Chemistry II + Lab	x	x	x	CHEM 14201+14203
*CHEM 33003 - Survey of Organic Chemistry (OR CHEM 36053)	x			CHEM 14201+14203
**CLS 1511+1512/MLSC 11541+11532 - Principles of Clinical Laboratory Science + Lab	x	x		

MLS Program (65 hours) – Application Required by April 15th

MLS Year 1:

*MLSC 22581+22553 - Hematology I + Lab	x			MLSC 11541+11532
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*MLSC 22541+22543 - Clinical Chemistry I + Lab	x			CHEM 14201+14203
				MLSC 11541+11532
*MLSC 22573 - Clinical Immunodiagnosics	x	x	x	BIOL 24101+24103
				MLSC 11541+11532
*MLSC 15501 - Basic Lab Operations Lab	x	x		MLSC 11541+11532
*MLSC 11531+21101 - Urine and Body Fluid Analysis + Lab		x		MLSC 11541+11532
*MLSC 22531+22533 - Medical Microbiology I + Lab		x		BIOL 20001+20003
*MLSC 42141+42142 - Medical Parasitology + Lab		x		BIOL 20001+20003
*MLSC 22561+22563 - Immunohematology I + Lab		x		MLSC 22571+22573
				MLSC 22581+22553
				BIOL 24101+24103
*HPMT 33103 - Intro to Disease	x	x		

MLS Year 2:

*MLSC 33102 - Laboratory Quality Management	x		x	MLSC 22541+22543
*MLSC 44101+44103 - Medical Microbiology II + Topics	x			MLSC 22531+22533
				MLSC 42141+42142
*MLSC 44331+44333 - Immunohematology II + Topics	x			MLSC 22561+22563

*MLSC 44302 - Senior Seminar I	x			MLSC 22561+22563
*MLSC 33201+33203 - Hematology II + Lab		x		MLSC 22581+22553
*MLSC 44101+44103 - Clinical Chemistry II + Topics course		x		MLSC 22541+22543
*MLSC 33153 - Clinical Biochemistry		x		CHEM 33003 or CHEM 36053
*MLSC 44232 - Senior Seminar II		x		MLSC 22561+22563

Clinical Practicums – start in MLS program year 2, taken in any order

*MLSC 44173 - Clinical Practicum I (Clinical Chemistry)	x	x	x	MLSC 22541+22543
*MLSC 44183 - Clinical Practicum II (Hematology)	x	x	x	MLSC 22581+22553
				MLSC 11531+21101
*MLSC 44193 - Clinical Practicum III (Medical Microbiology)	x	x	x	MLSC 22531+22533
*MLSC 44203 - Clinical Practicum IV (Blood Bank)	x	x	x	MLSC 22561+22563

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