

Medical Laboratory Sciences - Clinical B.S. - 4 Year Degree Plan

2026-2027

Lamar University's **Bachelor of Science in Medical Laboratory Sciences** with a concentration in **clinical** prepares you diagnose and treat diseases. This program combines many sciences, including microbiology, hematology, chemistry, molecular biology and immunology. You'll learn to perform a variety of tests, ensure the accuracy of the results, explain the significance of lab results and evaluate new methods for tests. The goal of this program is to prepare you to function as professional members of a healthcare team. – Contact UAC at advising@lamar.edu, 409-880-8822, lamar.edu/findadvisor

NOTE: Degree plans may change over a four-year period. This may not be the most current list of course requirements for your program. It is always advised that you check Degree Audit in Banner Self-Serv or your advisor for the most up-to-date degree requirements and to track your progress toward a degree.

FIRST YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	ENGL 1301	Composition I	3	_____	ENGL 1302 or COMM 1315	Composition II or Public Speaking I	3	_____
	BIOL 1406	General Biology I (Majors)	4	_____	BIOL 1407	General Biology II (Majors)	4	_____
	Creative Arts		3	_____	MATH 1316	Trigonometry	3	_____
	U.S. History		3	_____	U.S. History		3	_____
	Hours		13	_____	Hours		13	_____
SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	ENGL 2300	Ethics and Literature	3	_____	POLS 2302	Intro/American Government II	3	_____
	POLS 2301	Intro to American Government I	3	_____	CHEM 1312 and CHEM 1112	General Chemistry II and General Chemistry II Laboratory	4	_____
	CHEM 1311 and CHEM 1111	General Chemistry I and General Chemistry I Laboratory	4	_____	CMLS 2201	Intro to Medical Lab Science	2	_____
	BIOL 2421	Microbiology for Science Majors	4	_____	Social and Behavioral Sciences		3	_____
	Hours		14	_____	Hours		12	_____
THIRD YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	CHEM 3311 and CHEM 3111	Organic Chemistry I and Organic Chemistry I Laboratory	4	_____	CMLS 3407	Clinical Immunology	4	_____
	BIOL 3470	Genetics	4	_____	CMLS 3401	Fundamentals Clinical Chem	4	_____
	CMLS 3404	Introduction to Hematology Hem	4	_____	CHEM 3415 or CHEM 3112 or CHEM 3312	General Biochemistry or Organic Chemistry II Lab or Organic Chemistry II	4	_____
	Hours		12	_____	Hours		12	_____
	Summer							
	CMLS 4404	Diagnostic Microbiology I	4	_____				
	CMLS 4407	Clinical Analysis I	4	_____				
	CMLS 4310	Management (Lab Ops)	3	_____				
	Hours		11	_____				
FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	CMLS 4413	Diagnostic Microbiology II	4	_____	CMLS 4425	Clinical Immunohematology	4	_____
	CMLS 4416	Hematology/Hemostasis	4	_____	CMLS 4401	Clinical Chemistry	4	_____
	CMLS 4419	Clinical Analysis II	4	_____	CMLS 4428	Clinical Microbiology	4	_____
	CMLS 4422	Immunohematology	4	_____	CMLS 4431	Clinical Hematology	4	_____
				_____	CMLS 4101	BOC Review Course	1	_____
	Hours		16	_____	Hours		17	_____