

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

2026-2027

Lamar University's **Bachelor of Science in Medical Laboratory Sciences** with a concentration in **biomedical** connects clinical, service and research exploits to improve human, animal and environmental health. You will be prepared to catalyze the health improvement through innovation, discovery and global service and outreach. This program emphasizes versatility in the biomedical and medical sciences field, while also prioritizing education through courses that emphasize the interconnectedness of human, animal and environmental health. – 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		Communication Core		3	
	BIOL 1406	General Biology I (Majors)	4		MATH 1316	Trigonometry	3	
	Creative Arts		3		BIOL 1407	General Biology II (Majors)	4	
	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 Lab	4		PHYS 1401	College Physics I	4	
	CMLS 3404	Introduction to Hematology Hem	4		CHEM 3312 and CHEM 3112	Organic Chemistry II and Organic Chemistry II Lab	4	
	BIOL 3470	Genetics	4		CMLS 3407	Clinical Immunology	4	
					CMLS 3401	Fundamentals Clinical Chem	4	
	Hours		12		Hours		16	
	Summer							
	MATH 1342	Elementary Statistical Methods					3	
	Electives						3	
	Hours						6	
FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	CMLS 4434	Molecular Diagnostics	4		BIOL 3440	Advanced Physiology	4	
	PHYS 1402	College Physics II	4		BIOL 4435	Environmental Toxicology	4	
	CMLS 3415	General Biochemistry	4		HLTH 3360	Epidemiology	3	
	BIOL 4411 or CMLS 4437	Biomedical Technology and Applications or Biomedical Science and Med Lab	4		CMLS 4441	Special Topics	4	
					Electives		3	
	Hours		16		Hours		18	