

Chemistry B.S. Concentration in Biochemistry - 4 Year Degree Plan

2026-2027

The Lamar University **Bachelor of Science in Chemistry** with a concentration in **biochemistry** blends the principles of biochemistry and chemistry to give you the versatility for a career in either field. Through this program, you will possess an in-depth understanding of analytical, organic, inorganic and physical chemistry, as well as an examination of how cell components work together and communicate with each other.

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
	MATH 2413	Calculus and Analytical Geometry I	4	___	MATH 2414	Calculus and Analytical Geometry II	4	___
	BIOL 1406	General Biology I (Majors)	4	___	BIOL 1407	General Biology II (Majors)	4	___
	HIST 1301	U.S. History I 1763-1877	3	___	HIST 1302	U.S. History II Since 1877	3	___
	ENGL 1301	Composition I	3	___	ENGL 1302	Composition II	3	___
	Hours	14	___		Hours	14	___	

SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	CHEM 1311	General Chemistry I	3	___	CHEM 1312	General Chemistry II	3	___
	CHEM 1111	General Chemistry I Laboratory	1	___	CHEM 1112	General Chemistry II Laboratory	1	___
	PHYS 1401	College Physics I	4	___	PHYS 1402	College Physics II	4	___
	PHIL 1370	Philosophy of Knowledge	3	___	Creative Arts Core		3	___
	COMM 1315	Public Speaking I	3	___	Social and Behavioral Science Core		3	___
		Hours	14	___		Hours	14	___
Summer							Hours	Grade
POLS 2301	Intro to American Government I		3	___				
BIOL 2421	Microbiology for Science Majors		4	___				
			7	___				
			Hours			7	___	

THIRD YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	MATH 2415	Calculus III	4	___	CHEM 1312	Organic Chemistry II	3	___
	CHEM 3311	Organic Chemistry I	3	___	CHEM 1112	Organic Chemistry II Laboratory	1	___
	CHEM 3111	Organic Chemistry I Laboratory	1	___	PHYS 1402	College Physics II	3	___
	CHEM 3331	Inorganic Chemistry	3	___	Biology Elective		4	___
	CHEM 3131	Inorganic Chemistry I Laboratory	1	___	CHEM/BIOL Elective		3	___
	CHEM 3401	Quantitative Analysis	4	___				
		Hours	16	___		Hours	14	___
Summer							Hours	Grade
CHEM 4371	Intro Research (or CHEM 4471)		3	___				
POLS 2302	Intro/American Government II		3	___				
			6	___				
			Hours			6	___	

FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	CHEM 4311	Physical Chemistry I	3	_____	CHEM 4312	Physical Chemistry II	3	_____
	CHEM 4131	Physical Lab	1	_____	CHEM 4132	Physical Lab	1	_____
	CHEM 4411	Biochemistry I	4	_____	CHEM 4341	Inorganic	3	_____
	CHEM 4381	Chemical Communication	3	_____	CHEM 4141	Inorganic Chemistry II Laboratory	1	_____
	CHEM/BIOL Elective		3	_____	CHEM 4412	Biochemistry II	4	_____
					CHEM 4461	Instrumental Methods and Analysis	4	_____
	Hours		14	_____	Hours		16	_____

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