Texas Lutheran University Undergraduate Degree Plan

Bachelor of Science : Biochemistry

Student Name: _____ **ID#:** _____

Prospective Graduation Date: _____ **Catalog Year:** 2024-2025

General Education			
Note	**CrHr**	**Course Title**	**Competency**
15	**hrs**	**Foundation requirements:**	
Basic Quantitative Literacy			
	0	MATH130 College Math or higher	
Critical Reading			
	3	FREX 134	
Engaging Faith Traditions			
	3	THEO 133	
Modern Language*			
	3	Foreign language at 131 level or higher	Z
Written Communication			
	3	COMP 131	
	3	COMP 132	
*Can be met by a study abroad program lasting 4+ weeks			
24	**hrs**	**Distribution requirements:**	
	6	**Arts**	
	3		
	3		
	12	**Humanities (Max 2 courses/discipline)**	
	3		
	3		
	3		
	3		
	6	**Natural Sciences & Math (1 crs w/lab)**	
	0	PHYS 141 or 240	T
	0	PHYS 142 or 241	T
	6	**Social Sciences**	
	3		
	3		

Complete each of the following **Competencies:**			
3 Critical Thinking Courses (T)	X	X	X
3 Engaged Citizenship Courses (Z)	X		
2 Communication Courses (C)			
1 Ethics Course (E)			

Reflective Modules (2)	

111	**Total Hours – 124 Hours Needed**

Student: _____

Advisor: _____

Dept Chair: _____

Registrar: _____

Date: _____

51	**hrs**	Biochemistry	
Note	**CrHr**	**Course Title**	**Competency**
	4	BIOL 143 or 245	T
	4	BIOL 144 or 246	
	4	BIOL 242 Microbiology	
	3	BIOL 331 Genetics	
	3	BIOL 433 Molecular Biology	
	4	CHEM 143 General Chemistry I	T
	4	CHEM 144 General Chemistry II	
	4	CHEM 248 Organic Chemistry I	
	4	CHEM 249 Organic Chemistry II	
	4	CHEM 341 Analytical Chemistry	
	4	CHEM 344 Physical Chemistry I	
	3	CHEM 434 Biochemical Principles	
	3	CHEM 437 Biochemistry	
	1	CHEM 411 Senior Seminar I	
	1	CHEM 412 Senior Seminar II	
	1	CHEM 414 Biochemistry Lab	
6	**hrs**	**Specialization**	
	3 - 4	CHEM 332, 342, 345, 379, 435, 436	
	3	BIOL 379, 431, 438	
15	**hrs**	**Supporting Coursework**	
	4	MATH 241 Calculus I	T
	4	PHYS 141 or 240	
	4	PHYS 142 or 241	
	3	STAT 374 Statistics OR BIOL 338	T
0	**hrs**	**Electives / Minor**	

IMPORTANT: An overall GPA of 2.0 and a major/minor GPA of 2.0 is required for graduation. All undergraduate degrees require a minimum of 124 hours. It is the student's responsibility to fulfill all degree requirements.