



# Texas Lutheran University Degree Plan

## Bachelor of Science in Chemistry

### Teacher Certification Physical Science 7-12

Student Name: \_\_\_\_\_ ID#: \_\_\_\_\_

Prospective Graduation Date: \_\_\_\_\_ Catalog Year: 2023-24

General Education	
Take the following <b>Foundation</b> requirements (12 hrs):	
Basic Quantitative Literacy	
√	MATH 241 Calculus I
Critical Reading	
	FREX134 Exploring the Arts & Sciences
Engaging Faith Traditions	
	THEO133 Intro to Theology
Modern Language	
√	Foreign language at 131 level or higher *
Written Communication	
	COMP131 Composition I
	COMP132 Composition II

\* The language requirement can also be met by a study abroad program lasting 4 weeks.

Take the following <b>Distribution</b> requirements (6 hrs):	
Arts 6 hrs	
Humanities 12 hrs (no more than 2 courses/discipline)	
√	COMM 374 Professional Speaking
√	ENGL 2XX Literature Elective
√	HIST 131 Modern North America to Mid-19 <sup>th</sup> Cent
√	SPAN Elective
Natural Sciences & Math 6 hrs (1 crs w/lab)	
√	PHYS 240 Principles of Physics I
√	PHYS 241 Principles of Physics II
Social Sciences 6 hrs	
√	POLS 231 American Politics
√	PSYC 236 Developmental Psychology

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

Reflective Modules (3)	

Physics Coursework (38 hrs)	
	CHEM 143 General Chemistry I
	CHEM 144 General Chemistry II
	CHEM 248 Organic Chemistry I
	CHEM 332 Intermediate Inorganic Chemistry
	CHEM 341 Analytical Chemistry
	CHEM 344 Physical Chemistry
	CHEM 377 STEM by Inquiry Instructional Strat
	CHEM 434 Biochemical Principles
	CHEM 411 Senior Seminar I
	CHEM 412 Senior Seminar II
7 hours from the following: CHEM 249, 342, 345, 414, 435, 437, 310-330, 410-430	

Specialization Coursework (27 hrs)	
	EDUC 272 Classroom Applications of Technology
	EDUC 332 Learning Processes & Evaluation
	EDUC 334A U.S. Schools
	EDUC 373 Survey of Special Populations
	EDUC 374 Foundations of ESL Education
	EDUC 438 Classroom Management
	EDUC 461 Student Teaching
	READ 436 Literacy in the Content Areas

Supporting Coursework (44 hrs)	
	PHYS 240 Principles of Physics I
	PHYS 241 Principles of Physics II
	PHYS 334 Modern Physics
	Upper Division Physics Elective w/lab
	COMM 374 Professional Speaking
	ENGL 2XX Literature Elective
	HIST 131 Modern North America to Mid-19 <sup>th</sup> Cent
	MATH 241 Calculus I
	MATH 242 Calculus II
	POLS 231 American Politics
	PSYC 236 Developmental Psychology
	SPAN Elective
	SPAN Elective

127

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

Student: \_\_\_\_\_ Advisor: \_\_\_\_\_ Dept Chair: \_\_\_\_\_

Registrar: \_\_\_\_\_ Date: \_\_\_\_\_