



Texas Lutheran University Degree Plan

Bachelor of Science in Chemistry

Teacher Certification Physical Science 7-12

Student Name: _____ ID#: _____

Prospective Graduation Date: _____ Catalog Year: 2021-22

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

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

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

Complete each of the following Competencies :			
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)	
	<i>CHEM 143 General Chemistry I</i>
	<i>CHEM 144 General Chemistry II</i>
	<i>CHEM 248 Organic Chemistry I</i>
	<i>CHEM 332 Intermediate Inorganic Chemistry</i>
	<i>CHEM 341 Analytical Chemistry</i>
	<i>CHEM 344 Physical Chemistry</i>
	<i>CHEM 377 STEM by Inquiry Instructional Strat</i>
	<i>CHEM 434 Biochemical Principles</i>
	<i>CHEM 411 Senior Seminar I</i>
	<i>CHEM 412 Senior Seminar II</i>
7 hours from the following: <i>CHEM 249, 342, 345, 414, 435, 437, 310-330, 410-430</i>	

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

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

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: _____