Texas Lutheran University Degree Plan
Bachelor of Science in Physics – Computational Physics

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

Prospective Graduation Date: _____   **Catalog Year:** 2022-23

General Education

Take the following **Foundation** requirements (15 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 **Distribution** requirements (24 hrs):	
Arts 6 hrs	
Humanities 12 hrs (no more than 2 courses/discipline)	
Natural Sciences & Math 6 hrs (1 crs w/lab)	
√	CHEM 143 General Chemistry I
√	PHYS 240 Principles of Physics I
Social Sciences 6 hrs	

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)	

Physic (43 hrs)	
	PHYS 240 Principles of Physics I
	PHYS 241 Principles of Physics II
	PHYS 331 Mechanics
	PHYS 332 Electricity & Magnetism
	PHYS 334 Modern Physics
	PHYS 313 Modern Physics Lab
	PHYS 335 Quantum Mechanics
	PHYS 336 Statistical Thermodynamics
	PHYS 371 Math Methods for Scientists & Engineers
	PHYS 384 Advanced Lab in Physics
	PHYS 390 Applied Computational Physics I
	PHYS 437 Physics Research
	PHYS 438 Senior Seminar in Physics
1 additional upper division physics lab course	
	PHYS

Computational Specialization (10 hrs)	
	PHYS 391 Applied Computational Physics II
	CSCI 249 Object-Oriented Design & Methodology
	CSCI 338 Numerical Methods

Supporting coursework (30 hrs)	
	CHEM 143 General Chemistry I
	CHEM 144 General Chemistry II
	MATH 241 Calculus I
	MATH 242 Calculus II
	MATH 334 Differential Equations
	MATH 343 Calculus III
	CSCI 248 Object Oriented Programming
	STAT 374 Statistics

Electives or minor to total 124 hrs		

122

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: _____