



Texas Lutheran University Degree Plan

Bachelor of Science in Applied Physics – Computational

Student Name: _____ ID#: _____

Prospective Graduation Date: _____ Catalog Year: 2023-24

General Education	
Take the following Foundation requirements (18 hrs):	
Basic Quantitative Literacy	
	MATH130 College Math or higher
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)	
√	PHYS 240 Principles of Physics I
√	CHEM 143 General Chemistry I
Social Sciences 6 hrs	

Take 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 (50 hrs)	
	PHYS 240 Intro Physics for Scientists & Eng I
	PHYS 241 Intro Physics for Scientists & Eng II
	PHYS 331 Mechanics or PHYS 337 Dynamics
	PHYS 332 Electricity & Magnetism
	PHYS 334 Modern Physics
	PHYS 313 Modern Physics Lab
	PHYS 335 Quantum or PHYS 336 Stat & Thermal
	PHYS 348 Applied Optics
	PHYS 371 Math Methods for Scientists & Engineers
	PHYS 381 Digital Electronics
	PHYS 384 Advanced Lab in Physics
	PHYS 390 Applied Computational Physics I
	PHYS 391 Applied Computational Physics II
	PHYS 392 Thermal & Fluids Physics for Engineering
	PHYS 437 Physics Research
	PHYS 438 Senior Seminar in Physics

Computational Specialization (7 hrs)	
	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			

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: _____