



Texas Lutheran University Degree Plan

Bachelor of Science in Applied Physics – Computational

Student Name: _____ ID#: _____

Prospective Graduation Date: _____ Catalog Year: 2022-23

General Education	
Take the following Foundation requirements (18 hrs):	
Basic Quantitative Literacy	
	<i>MATH130 College Math or higher</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 (24 hrs):	
Arts 6 hrs	
Humanities 12 hrs (no more than 2 courses/discipline)	
Natural Sciences & Math 6 hrs (1 crs w/lab)	
✓	<i>PHYS 240 Principles of Physics I</i>
✓	<i>CHEM 143 General Chemistry I</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)	
	<i>PHYS 240 Principles of Physics I</i>
	<i>PHYS 241 Principles of Physics II</i>
	<i>PHYS 331 Mechanics or PHYS 337 Dynamics</i>
	<i>PHYS 332 Electricity & Magnetism</i>
	<i>PHYS 334 Modern Physics</i>
	<i>PHYS 313 Modern Physics Lab</i>
	<i>PHYS 335 Quantum or PHYS 336 Stat & Thermal</i>
	<i>PHYS 348 Optics</i>
	<i>PHYS 371 Math Methods for Scientists & Engineers</i>
	<i>PHYS 381 Digital Electronics</i>
	<i>PHYS 384 Advanced Lab in Physics</i>
	<i>PHYS 390 Applied Computational Physics I</i>
	<i>PHYS 391 Applied Computational Physics II</i>
	<i>PHYS 392 Thermal & Fluids Physics for Engineering</i>
	<i>PHYS 437 Physics Research</i>
	<i>PHYS 438 Senior Seminar in Physics</i>

Computational Specialization (7 hrs)	
	<i>CSCI 249 Object-Oriented Design & Methodology</i>
	<i>CSCI 338 Numerical Methods</i>

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

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: _____