

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

Student Name:	ID#:		
Prospective Graduation Date:	Catalog Year: 2024-25		

General Education			
Take the following <b>Foundation</b> 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			

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

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

Reflective Modules (2)			

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				

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<b>IMPORTANT</b> : 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:		