# 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: 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)

**Take the following Competencies:**
- 3 Critical Thinking Courses (T)
- 3 Engaged Citizenship Courses (Z)
- 2 Communication Courses (C)
- 1 Ethics Course (E)

### Physic (50 hrs)

- PHYS 240 Principles of Physics I
- PHYS 241 Principles of Physics 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 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

**Reflective Modules (3)**

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**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:** ____________________________