# Texas Lutheran University Degree Plan

**Bachelor of Science in Applied Physics**

| 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)**
- **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)

## 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

## 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

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## 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: ____________________________