**Texas Lutheran University Degree Plan**

**Bachelor of Science in Applied Physics**

**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) | | |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **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* | | |
|  | | | |
| **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)** | | | |
|  |  | | |
|  |  | | |
|  |  | | |

122

**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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_