**Texas Lutheran University Degree Plan**

**Bachelor of Science in Physics: Physics/Math 7-12**

**Student Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **ID#:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Prospective Graduation Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Catalog Year:** 2023-24



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **General Education** | | | | |
| Take the following **Foundation** requirements (12 hrs): | | | | |
| Basic Quantitative Literacy | | | | |
| √ | *MATH 241 Calculus I* | | | |
| 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 (6 hrs): | | | | |
| Arts 6 hrs | | | | |
|  |  | | | |
|  |  | | | |
| Humanities 12 hrs (no more than 2 courses/discipline) | | | | |
| √ | *COMM 374 Professional Speaking* | | | |
| √ | *ENGL 2XX Literature Elective* | | | |
| √ | *HIST 131 Modern North America to Mid-19th Cent* | | | |
| √ | *SPAN Elective* | | | |
| Natural Sciences & Math 6 hrs (1 crs w/lab) | | | | |
| √ | *PHYS 240 Principles of Physics I* | | | |
| √ | *PHYS 241 Principles of Physics II* | | | |
| Social Sciences 6 hrs | | | | |
| √ | *POLS 231 American Politics* | | | |
| √ | *PSYC 236 Developmental Psychology* | | | |
|  | | | | |
| Complete each of the following **Competencies**: | | | | |
| 3 Critical Thinking Courses (T) | |  |  |  |
| 3 Engaged Citizenship Courses (Z) | |  |  |  |
| 2 Communication Courses (C) | |  |  |  |
| 1 Ethics Course (E) | |  |  |  |
|  | | | | |
| **Reflective Modules (3)** | | | | |
|  |  | | | |
|  |  | | | |
|  |  | | | |

|  |  |
| --- | --- |
| **Physics Coursework (37 hrs)** | |
|  | *PHYS 240 Intro Physics for Scientists & Eng I* |
|  | *PHYS 241 Intro Physics for Scientists & Eng II* |
|  | *PHYS 331 Mechanics* |
|  | *PHYS 332 Electricity & Magnetism* |
|  | *PHYS 334 Modern Physics* |
|  | *PHYS 313 Modern Physics Lab* |
|  | *PHYS 335 Quantum or PHYS 336 Thermodynamics* |
|  | *PHYS 371 Math Methods for Scientists & Engineers* |
|  | *PHYS 377 STEM by Inquiry Instructional Strat* |
|  | *PHYS 390 Applied Computational Physics I* |
|  | *PHYS 438 Senior Seminar in Physics* |
| 1 additional upper division physics lab course (4 hrs) | |
|  | *PHYS* |
|  | |
| **Specialization Coursework (27 hrs)** | |
|  | *EDUC 272 Classroom Applications of Technology* |
|  | *EDUC 332 Learning Processes & Evaluation* |
|  | *EDUC 334A U.S. Schools* |
|  | *EDUC 373 Survey of Special Populations* |
|  | *EDUC 374 Foundations of ESL Education* |
|  | *EDUC 438 Classroom Management* |
|  | *EDUC 461 Student Teaching* |
|  | *READ 436 Literacy in the Content Areas* |
|  | |
| **Supporting Coursework (48 hrs)** | |
|  | *COMM 374 Professional Speaking* |
|  | *ENGL 2XX Literature Elective* |
|  | *HIST 131 Modern North America to Mid-19th Cent* |
|  | *MATH 233 Discrete Mathematics* |
|  | *MATH 234 Intro to Advanced Mathematics* |
|  | *MATH 241 Calculus I* |
|  | *MATH 242 Calculus II* |
|  | *MATH 334 Differential Equations* |
|  | *MATH 337 Geometry* |
|  | *MATH 343 Calculus III* |
|  | *POLS 231 American Politics* |
|  | *PSYC 236 Developmental Psychology* |
|  | *SPAN Elective* |
|  | *SPAN Elective* |
|  | *STAT 374 Statistics* |

130

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