**Texas Lutheran University Degree Plan**

**Bachelor of Science in Biochemistry**

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

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



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| **General Education** | | | | | |
| Take the following **Foundation** requirements (15 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 | | | | | |
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| Humanities 12 hrs (no more than 2 course/discipline) | | | | | |
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| Natural Sciences & Math 6 hrs (1 crs w/lab) | | | | | |
| √ | | *BIOL 143 Biological Systems I* | | | |
| √ | | *CHEM 143 General Chemistry I* | | | |
| Social Sciences 6 hrs | | | | | |
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| Complete the following **Competencies**: | | | | | |
| 3 Critical Thinking Courses (T) | | |  |  |  |
| 3 Engaged Citizenship Courses (Z) | | |  |  |  |
| 2 Communication Courses (C) | | |  |  |  |
| 1 Ethics Course (E) | | |  |  |  |
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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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Major Coursework (57 hrs)** | | | |
|  | *BIOL 143/144 Biological Systems I & II & Lab* ***OR***  *BIOL 245/246 Anatomy & Physiology I & II & Lab* | | |
|  | *BIOL 242 Microbiology* | | |
|  | *BIOL 331 Genetics* | | |
|  | *BIOL 433 Molecular Biology* | | |
|  | *CHEM 143 General Chemistry I* | | |
|  | *CHEM 144 General Chemistry II* | | |
|  | *CHEM 248 Organic Chemistry I* | | |
|  | *CHEM 249 Organic Chemistry II* | | |
|  | *CHEM 341 Analytical Chemistry* | | |
|  | *CHEM 344 Physical Chemistry I* | | |
|  | *CHEM 434 Biochemical Principles* | | |
|  | *CHEM 437 Biochemistry* | | |
|  | *CHEM 411 Senior Seminar I* | | |
|  | *CHEM 412 Senior Seminar II* | | |
|  | *CHEM 414 Biochemistry Lab* | | |
| *Select 6 hours from:*  *CHEM 332, 342, 345, 379, 435, 436, BIOL 379, 431, 438* | | | |
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| **Supporting Coursework (15 hrs)** | | | |
|  | *MATH 241 Calculus I* | | |
|  | *STAT 374 Statistics OR BIOL 338* | | |
| 8 hrs of Physics (PHYS 141-142 or 240-241) | | | |
|  | *PHYS 141 or 240* | | |
|  | *PHYS 142 or 241* | | |
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| **Electives or minor to total 124 hrs** | | | |
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