**Texas Lutheran University Degree Plan**

**Bachelor of Science of Biology-Molecular**

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

**Prospective Graduation Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Catalog Year: 2020-21**



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

|  |  |  |  |
| --- | --- | --- | --- |
| **Biology-Molecular (39 hrs)** | | | |
|  | *BIOL 143 Biological Systems I* | | |
|  | *BIOL 144 Biological Systems II* | | |
|  | *BIOL 242 Microbiology* | | |
|  | *BIOL 331 Genetics* | | |
|  | *BIOL 338 Biostatistics* | | |
|  | *BIOL 414 Biochemistry Lab* | | |
|  | *BIOL 428 Senior Capstone* | | |
|  | *BIOL 431 General Physiology* | | |
|  | *BIOL 433 Molecular Biology* | | |
|  | *BIOL 437 Biochemistry* | | |
|  | *BIOL 471 Cell Biology* | | |
| One course from BIOL 332, 430 | | | |
|  |  | | |
| One course from BIOL 432, 436, 438, 473 | | | |
|  |  | | |
|  |  | | |
| **Supporting coursework (28 hrs)** | | | |
|  | *CHEM 143 General Chemistry I* | | |
|  | *CHEM 144 or 341 Gen Chem II or Analytical Chem* | | |
|  | *CHEM 248 Organic Chem I* | | |
|  | *CHEM 249 Organic Chem II* | | |
|  | *MATH 241 Calculus I* | | |
| 8 hrs of Physics (PHYS 141-142 or 240-241) | | | |
|  | *PHYS 141 or 240* | | |
|  | *PHYS 142 or 241* | | |
|  |  | | |
| **Electives or minor to total 124 hrs** | | | |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | | | |
| **Reflective Modules (3)** | | | |
|  |  | | |
|  |  | | |
|  |  | | |

106

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