**Texas Lutheran University Degree Plan**

**Bachelor of Science in Chemistry**

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

**Prospective Graduation Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Catalog Year: 2022-23**



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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) | | | | | |
| √ | *CHEM 143General Chemistry I* | | | | |
| √ | *PHYS Elective* | | | | |
| 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) | | |  |  |  |
|  | | | | | |
| **Reflective Modules (3)** | | | | | |
|  |  | | | | |
|  |  | | | | |
|  |  | | | | |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Chemistry (46 hrs)** | | | | |
|  | *CHEM 143 General Chemistry I* | | | |
|  | *CHEM 144 General Chemistry II* | | | |
|  | *CHEM 248 Organic Chemistry I* | | | |
|  | *CHEM 332 Intermediate Inorganic Chemistry* | | | |
|  | *CHEM 341 Analytical Chemistry* | | | |
|  | *CHEM 344 Physical Chemistry I* | | | |
|  | *CHEM 434 Biochemical Principles* | | | |
| 15 hrs from the following In-Depth field: | | | | |
|  | *CHEM 122 Intro to Research Methods* | | | |
|  | *CHEM 249 Organic Chemistry II* | | | |
|  | *CHEM 342 Instrumental Techniques* | | | |
|  | *CHEM 345 Physical Chemistry II* | | | |
|  | *CHEM 379 Special Topics* | | | |
|  | *CHEM 414 Physiology/Biochemistry Lab* | | | |
|  | *CHEM 435 Medicinal Chemistry* | | | |
|  | *CHEM 436 Environmental Chemistry* | | | |
|  | *CHEM 437 Metabolic Biochemistry* | | | |
| 3 hrs from the following research courses:  CHEM 310,320,330,410, 420, 430 | | | | |
|  |  | | | |
| 2 hrs of Senior Seminar: | | | | |
|  | *CHEM 411 Senior Seminar I* | | | |
|  | *CHEM 412 Senior Seminar II* | | | |
|  |  | | |  |
| **Supporting coursework (28 hrs)** | | | | |
|  | *PHYS Elective* | | | |
|  | *PHYS Elective* | | | |
|  | *MATH 241 Calculus I* | | | |
|  | *MATH 242 Calculus II* | | | |
| 12 hrs (9 hrs at 200-level or higher) from math (not MATH 375-376), physics, computer science, STAT 374 or BIOL 341, BIOL 414, BIOL 431, BIOL 432 or BIOL 444 | | | | |
|  |  | | | |
|  |  | | | |
|  |  | | | |
|  |  | | | |
|  |  | | |  |
| **Electives or minor to total 124 hrs** | | | | |
|  |  |  |  | |
|  |  |  |  | |
|  |  |  |  | |

113