**Texas Lutheran University Degree Plan**

**Bachelor of Science in Chemistry**

**Teacher Certification Physical Science 7-12**

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

**Prospective Graduation Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Catalog Year: 2019-20**



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| **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.* | | | | |
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| Take the following **Distribution** requirements (6 hrs): | | | | |
| Arts 6 hrs | | | | |
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| 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* | | | |
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| Complete each of 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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| **Physics Coursework (38 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* |
|  | *CHEM 377 STEM by Inquiry Instructional Strat* |
|  | *CHEM 434 Biochemical Principles* |
|  | *CHEM 411 Senior Seminar I* |
|  | *CHEM 412 Senior Seminar II* |
| 7 hours from the following: *CHEM 249, 342, 345, 414, 435, 437, 310-330, 410-430* | |
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| **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* |
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| **Supporting Coursework (44 hrs)** | |
|  | *PHYS 240 Principles of Physics I* |
|  | *PHYS 241 Principles of Physics II* |
|  | *PHYS 334 Modern Physics* |
|  | *Upper Division Physics Elective w/lab* |
|  | *COMM 374 Professional Speaking* |
|  | *ENGL 2XX Literature Elective* |
|  | *HIST 131 Modern North America to Mid-19th Cent* |
|  | *MATH 241 Calculus I* |
|  | *MATH 242 Calculus II* |
|  | *POLS 231 American Politics* |
|  | *PSYC 236 Developmental Psychology* |
|  | *SPAN Elective* |
|  | *SPAN Elective* |

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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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_