BACHELOR OF SCIENCE IN CHEMISTRY
(Teacher Licensure, Grades 7-12)
(137 - 145 credit hours required)

NAME__________________________________________ DATE____/____/____

RELIGION CORE

DEVELOPING BIBLICAL FAITH/LIFESTYLE
BIBL-110 Message of the New Testament (3) .......... ( )
BIBL-111 Message of the Old Testament (3) .......... ( )
THEO-230 Intro. to Theology (3) ...................... ( )
THEO-231 Intro. to Christian Ethics (3) ................ ( )
RELG-200 Bibi/Theo Foundations for Benevolence (1) ( )
Christian Service (2)* ..................................... ( )

SUBTOTAL (15 hours) ........................................ ( )
*Christian Service is not a course; the credit hours are earned by a combination of class, group, and individual service learning experiences.

GENERAL EDUCATION CORE

ACQUIRING FUNDAMENTAL ACADEMIC SKILLS
ENGL-105 (4) and ENGL-110 (3) ......................... ( )
OR ENGL-106 (3) and ENGL-110 (3) ................. ( )
OR ENGL-110 (3) [depends on placement] ............... ( )
CISS-101 Intro to Computer-Based Systems (3) ....... ( )
GNST-101 Freshman Seminar: Gateway (2) ............. ( )

EXPLORING THE HUMANITIES
HUMN-201 Foundations of Western Culture (3) ...... ( )
Two of the following (6)
HUMN-202 Rise of Europe (3) ......................... ( )
HUMN-301 Foundations of Modern World (3) ........ ( )
HUMN-302 Modern Western Culture (3) .............. ( )
HIST-221 / 222 Western Civilization I, II (3) (3)
ENGL-221 Western Lit: Ancient to Renaissance (3)
ENGL-222 Western Lit: Enlightenment to Postmodern (3)
One of the following (3)
ARTS-244 / 245 Art History I, II (3) (3) ............... ( )
THEA-331 / 332 Survey of Drama Literature I, II (3) (3)
MUHL-211 Music in Culture (3)
PHIL-241 Introduction to Philosophy (3)

UNDERSTANDING CONTEMPORARY SOCIETY
HIST-212 Recent American History & Government (3)
OR
POLS-200 Understanding Contemporary Politics (3).... ( )
Two of the following (6)
PSYC-200 Understanding Human Behavior (3) ...... ( )
SOCI-200 Understanding Contemporary Society (3)
ECON-200 Understanding Economic Issues (3)

RESPECTING THE NATURAL WORLD
PHED-100 Healthy & Effective Lifestyles (1) .......... ( )

SEEKING A GLOBAL PERSPECTIVE
ANTH-200 Global Perspectives Seminar (1) ............ ( )
GNST-250-253 Cross Cultural Experience (1-3) ....... ( )
LING-201 Intro Language and Culture (3) ............. ( )

SUBTOTAL (35/41 hours) ...................................... ( )

ACADEMIC ASSESSMENT
GNST-400 Academic Assessment (0) .................... ( )

SPECIALTY AREA*
CHEM-111 General Chemistry I (4) .................... ( )
CHEM-112 General Chemistry II (4) .................. ( )
CHEM-281 Organic Chemistry I (3) ..................... ( )
CHEM-282 Organic Chemistry II (3) ................. ( )
CHEM-289 Organic Chemistry Lab (3) ............... ( )
CHEM-351 Quantitative Analysis (4) ................ ( )
CHEM-431 Physical Chemistry I (3) .................. ( )
CHEM-432 Physical Chemistry II (3) ............... ( )
CHEM-439 Physical Chemistry Research (3) ....... ( )
Chemistry Electives: (Choose 3 hours)
CHEM-321 Biochemistry I (3) ......................... ( )
CHEM-371-374 Special Topics in Chemistry (4) .... ( )
CHEM-491 Senior Research (1-4) ................. ( )
CHEM-492 Professional Presentation (1) ........... ( )

SUBTOTAL (12 hours) ........................................... ( )

COLLATERAL REQUIREMENTS*
BIOL-495 Science and Scripture (3) .................. ( )
MATH-144 Precalculus (4)** .......................... ( )
MATH-261 Elem. Probability & Statistics (4) ....... ( )
MATH-271 Calculus I (4) ............................. ( )
PHYS-281 General Physics I (4) ..................... ( )
PHYS-282 General Physics II (4) .................... ( )

SUBTOTAL (27/29 hours) ..................................... ( )
**MATH-111/112 may substitute for MATH-144

PROFESSIONAL
EDUC-199 Intro To The Teaching Profession (1) ...... ( )
EDUC-299 Teaching Diverse Learners (1) .......... ( )
EDUC-315 Foundations of Education (3) ............. ( )
PSYC-312 Educational Psychology (3) ............... ( )
SPED-316 Exceptional Child (3) ..................... ( )
SCED-415 Teaching Science, Gr. 7-12 (2) ....... ( )
SCED-419 General Secondary Methods (2) .......... ( )

SUBTOTAL (15 hours) ......................................... ( )

PROFESSIONAL SEMESTER
EDUC-496 Student Teaching I (5) ..................... ( )
EDUC-497 Student Teaching II (5) .................. ( )
EDUC-498 Student Teaching Seminar (2) .......... ( )

SUBTOTAL (12 hours) ......................................... ( )

* A grade of C- or above is required to fulfill the Specialty Area and Collateral Requirements in this major.
SUGGESTED FOUR YEAR SEQUENCE OF STUDY FOR BACHELOR OF SCIENCE IN CHEMISTRY
(Teacher Licensure in Grades 7-12)

(The two-hour Christian Service requirement is not listed, but is spread throughout the four years.)

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>Course</strong></td>
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<td>Hours</td>
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<tr>
<td>College Writing/ Workshop</td>
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<td>Rhetoric and Research</td>
<td>3</td>
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<td>Message of New &amp; Old Testament</td>
<td>6</td>
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<tr>
<td>Introduction to the Teaching Profession</td>
<td>1</td>
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<td>General Chemistry</td>
<td>8</td>
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<td>Freshman Seminar: Gateway</td>
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<td>Contemporary Society Option 1</td>
<td>3</td>
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<tr>
<td>Precalculus*</td>
<td>4</td>
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<td>Calculus 1</td>
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*SUGGESTED COURSES FOR SOPHOMORE YEAR MAY BE USED IN FRESHMAN YEAR*  

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<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SENIOR YEAR</th>
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<tbody>
<tr>
<td><strong>Course</strong></td>
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<td>Hours</td>
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<tr>
<td>Bib/Theo Foundations of Benevolence</td>
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<td>Intro. to Theology</td>
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<td>Foundations of Western Culture</td>
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<td>Healthy Lifestyles</td>
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<td>Organic Chemistry</td>
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<td>Intro to Computer-Based Systems</td>
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**2021-2022 Academic Year**

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<th>SENIOR YEAR</th>
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<tr>
<td><strong>1ST SEMESTER</strong></td>
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<tr>
<td><strong>Course</strong></td>
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<tr>
<td>Physical Chemistry Research</td>
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<tr>
<td>General Secondary Methods</td>
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<tr>
<td>Teaching Science, Grades 7-12</td>
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<tr>
<td>Chemistry Electives</td>
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<tr>
<td>Science and Scripture (Capstone)</td>
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<tr>
<td>U S History/Politics Option</td>
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<tr>
<td>Contemporary Society Option 2</td>
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<td><strong>Total</strong></td>
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| **2ND SEMESTER** |
| **Course** | **Hours** |
| Student Teaching Seminar                        | 2          |
| Student Teaching I                               | 5          |
| Student Teaching II                              | 5          |
| **Total**                                        | 12         |

*MAT111 and MATH-112 may substitute*