

## Secondary Education — Chemistry (B.S.)

| FRESHMAN YEAR   |  |  | SOPHOMORE YEAR        |  |  |
|---|--|--|-----------------------|--|--|
| Fall Semester   |  | 15 Credits                                   | Fall Semester         | 14 Credits   |  |
| ENGL 1100   | Writing I  | (3)  | CHEM 2000             | Organic Chemistry I(4)   |  |
| CHEM 1300   | General Chemistry I*.                                    | (4)  | CHEM 1860             | Introduction to Education (5-12)(3)  |  |
| MATH 1300   | Precalculus  | (4)  | MATH 2400             | Calculus II(4)   |  |
| BIOL 1800   | General Biology I  | (4)  |                       | LA&S Elective(3)   |  |
| * General Chemistry r   | equires a 'passing' score or                             | n Advanced Algebra and Functions             |                       |  |  |
| Accuplacer placement exam OR successful completion of MATH 0500 (Algebraic      |  |  | Spring Semester       | 15 Credits   |  |
| Preparation) prior to enrollment. To continue as a Biology major, students must |  |  | CHEM 2400             | General Analytical Chemistry(4)  |  |
| earn a grade of 2.0 or  | higher in General Biology I                              | and General Chemistry I.                     | CHEM 2100             | Organic Chemistry II(4)  |  |
|   |  |  | SPED 3800             | Inclusive Instruction (5-12)**(3)  |  |
| Spring Semester   |  | 14 Credits                                   | PHYS 2600 <b>OR</b>   | Calculus-Based Physics I <b>OR</b>   |  |
| ENGL 1200   | Writing II   | (3)  | PHYS 2300             | General Physics I(4)   |  |
| CHEM 1400   | General Chemistry II.                                    | General Chemistry II(4)                      |                       | **This course requires completion of CHEM 1860 and successful passage of Stage |  |
| MATH 2300   | Calculus I   |  |                       | One Review of Education Unit.  |  |
|   | LA&S Elective  | Elective(3)                                  |                       |  |  |
|   |  |  |                       |  |  |
| JUNIOR YEAR   |  |  | SENIOR YEAR           |  |  |
| Fall Semester   |  | 16 Credits                                   | Fall Semester         | 15 Credits   |  |
| CHEM 3600 <b>OR</b>   | Descriptive Inorganic Chemistry <b>OR</b>                |  | CHEM 3600 <b>OR</b>   | Descriptive Inorganic Chemistry OR   |  |
| CHEM 3030   | Biochemistry I(3)  |  | CHEM 3030             | Biochemistry I(3)  |  |
| PHYS 2700 <b>OR</b>   | Calculus-Based Physics II <b>OR</b>                      |  | CHEM 4850             | Methods in Teaching Chemistry (8-12) II(3)                                     |  |
| PHYS 2400   | General Physics II(4)                                    |  | EDUC 3122             | Sheltered English Immersion(3)   |  |
| CHEM 3015   | Methods of Teaching Biology (8-12) I(3) LA&S Elective(3) |  |                       | Free Elective(3)   |  |
|   |  |  |                       | Free Elective(3)   |  |
|   | Free Elective  | (3)  |                       |  |  |
| Spring Semester 15 Credits  |  | Spring Semester                              | 12 Credits            |  |  |
| CHEM 4750   | Chemistry Seminar  | (3)  | CHEM 4860             | Chemistry Practicum in a Secondary School I (4.5)                              |  |
| CHEM 3200   | Physical Chemistry I .                                   | (4)  | CHEM 4870             | Chemistry Practicum in a Secondary School II (4.5)                             |  |
| ENGL 4700   | Teaching Reading and                                     | d Writing                                    | CHEM 4012             | Practicum Seminar (5-12)(3)  |  |
|   | Across the Content A                                     | rea(3)                                       |                       |  |  |
|   | LA&S Elective  | (3)  |                       |  |  |
|   | Free Elective  | (3)  |                       |  |  |
|   |  |  |                       |  |  |
| LA&S Elective List  |  | ced LA&S Options Area                        | Global Diversity Area |  |  |
| 1 AOM attribute (Art or I   |  | the three options with your advisor and      |                       | must meet the Global Diversity (GD) requirement.                               |  |
| ART attribute (the Arts   |  | t your decision to the Registrar's Office by | y The GD cours        | es may also satisfy other LAS requirements at the same time.                   |  |
| CTW attribute (Citizens   | hip & The World)   | etion of 60 credits.                         | a                     |  |  |
| 3 credits HAF attribut  |  |  | Chemistry Se          | minar fulfills the Capstone requirement for this major.                        |  |
| 1 HIST subject (History)  | Free El  | ectives                                      |                       |  |  |

Completion of 120 credits required for graduation.

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1 LIT attribute (Literature)

1 HMN attribute (Human Behavior)

It is recommended that students consider their career goals in selecting their free electives by seeking advice

biology, mathematics, physics, geophysical sciences, computer science and/or industrial technology.

from their academic advisor and/or the pre-health advisor. Examples of recommended electives are courses in