

CHEMISTRY

B.S. in Chemistry (Secondary Option)

| Course | Number | | Credit Hours |
|--|--------------|--|--------------|
| I. CORE CURRICULUM (62 semester hours) | | | |
| AREA A Essential Skills (9 semester hours) | | | |
| ENGL | 1101 | English Composition I | 3 |
| ENGL | 1102 | English Composition II | 3 |
| MATH | *1113 | Precalculus Mathematics | 3 |
| AREA B Institutional Options (4 semester hours) | | | |
| COMM | 1110 | Fundamentals of Speech | 3 |
| Elective | | BIOL 1001, COMM 1120, ENGL 1105, 1110, HIST 1050, 1051, HUMN 1000, 1100, PHED 1030, SOCI 1000 | 1 |
| AREA C Humanities/Fine Arts (6 semester hours) | | | |
| Electives | | ENGL 1201, 2111, 2112, 2120, 2121, 2130, 2131; HUMN 1201 or MUSC 1100 or THEA 1100 | 6 |
| AREA D Science/Mathematics/Technology (12 semester hours) | | | |
| MATH | 2253 | Calculus & Analytical Geometry I | 4 |
| PHYS | 2211K | Principles of Physics I | 4 |
| PHYS | 2212K | Principles of Physics II | 4 |
| AREA E Social Sciences (12 semester hours) | | | |
| HIST | 2111 or 2112 | United States History | 3 |
| POLS | 1101 | American Government | 3 |
| Electives | | ANTH 1103, ECON 2105, 2106, GEOG 1100, 1101, 1111, HIST 1111, 1112, 2111, 2112, PHIL 1101, 1102, 1103, POLS 2101, 2201, 2301, 2401, PSYC 1101, 2101, 2103, 2204, 2250, SOCI 1101, 1160 | 6 |
| AREA F Major Related (18 semester hours) | | | |
| CHEM | 1211K | Principles of Chemistry I | 4 |
| CHEM | 1212K | Principles of Chemistry II | 4 |
| MATH | 2254 | Calculus & Analytical Geometry II | 4 |
| BIOL | 1107K | Principles of Biology I | 4 |
| BIOL | 2270 | Ethical Issues in Science | 2 |
| PHYSICAL EDUCATION (1 semester hour) | | | |
| PHED | | Activity Elective | 1 |

* Math 2253 may be used if the student meets the prerequisites. The additional hour of credit will be applied to the upper level curriculum electives.

CHEMISTRY EDUCATION TRACK

II. UPPER LEVEL CORE CURRICULUM (30 semester hours)

Required (26)

| | | | |
|------|---------|----------------------------------|---|
| CHEM | **3211K | Organic Chemistry I | 4 |
| CHEM | **3212K | Organic Chemistry II | 4 |
| CHEM | **3311K | Quantitative Analysis | 4 |
| CHEM | **3312K | Instrumental Methods of Analysis | 4 |
| CHEM | **3411K | Physical Chemistry I | 4 |
| CHEM | **4110K | Advanced Inorganic Chemistry | 4 |
| CHEM | **4000 | Senior Seminar | 2 |

Select 4 hours from the following:

| | | | |
|------|-------|-------------------------|---|
| CHEM | 3500K | Biochemistry | 4 |
| CHEM | 3700K | Environmental Chemistry | 4 |

EDUCATION COURSES (36 semester hours)

| | | | |
|------|---------|--|---|
| EDUC | 2110C | Investigating Critical and Contemporary Issues in Education | 3 |
| EDUC | 2120 | Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts | 3 |
| EDUC | 2130 | Exploring Teaching and Learning | 3 |
| EDUC | ***3120 | Teaching Secondary Students Who Are Exceptional, Diverse, and At-Risk | 3 |
| EDUC | ***3272 | Classroom Management in Secondary Education/Field Experience I | 2 |
| EDUC | ***3273 | Classroom Management in Secondary Education/Field Experience II | 2 |
| EDUC | ***3274 | Classroom Management in Secondary Education/Field Experience III | 2 |
| EDUC | ***3902 | Curriculum and Assessment for Secondary Math/Science Teachers | 3 |
| EDUC | ***4901 | Methods and Strategies for Secondary Math/Science Teachers | 3 |
| EDUC | ***4954 | Internship | 8 |
| EDUC | ***4953 | Senior Seminar | 1 |
| READ | ***3456 | Reading and Writing Across the Curriculum for Secondary Teachers | 3 |

** These courses are taken by both Chemistry and Chemistry Education majors.

*** Students must be admitted to the Education Program prior to taking upper division (3000-4000) education courses.