

**CHEMISTRY**  
**B.S. in Chemistry (Secondary Option)**

Course	Number		Credit Hours
<b>I. CORE CURRICULUM (62 semester hours)</b>			
<b>AREA A Essential Skills (9 semester hours)</b>			
ENGL	1101	English Composition I	3
ENGL	1102	English Composition II	3
MATH	*1113	Precalculus Mathematics	3
<b>AREA B Institutional Options (4 semester hours)</b>			
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
<b>AREA C Humanities/Fine Arts (6 semester hours)</b>			
Electives		ENGL 1201, 2111, 2112, 2120, 2121, 2130, 2131; HUMN 1201, MUSC 1100, THEA 1100	6
<b>AREA D Science/Mathematics/Technology (12 semester hours)</b>			
MATH	2253	Calculus & Analytical Geometry I	4
PHYS	2211K	Principles of Physics I	4
PHYS	2212K	Principles of Physics II	4
<b>AREA E Social Sciences (12 semester hours)</b>			
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
<b>AREA F Major Related (18 semester hours)</b>			
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
<b>PHYSICAL EDUCATION (1 semester hour)</b>			
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.