

CHEMISTRY
B.S. in Chemistry

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, MUSC 1100, 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.

II. UPPER LEVEL CORE CURRICULUM (34 semester hours)**Required (34)**

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	3412K	Physical Chemistry II	4
CHEM	**4110K	Advanced Inorganic Chemistry	4
CHEM	**4000	Senior Seminar	2
MATH	2255	Calculus & Analytical Geometry III	4

III. CHEMISTRY UPPER LEVEL CURRICULUM (24 semester hours)**Select 6-8 hours from the following:**

CHEM	3500K	Biochemistry	4
CHEM	3700K	Environmental Chemistry	4
CHEM	4103	Textile Chemistry	3
CHEM	4430	Advanced Organic Chemistry	3

Select 18 hours from the following:

CHEM	4800	Chemistry Internship	1-4
CHEM	4500K	Biotechnology	4
CHEM	4900	Special Topics in Chemistry	3
BIOL	1108K	Principles of Biology II	4
BIOL	3000	Environmental Law and Policy	3
BIOL	3200K	Cellular Biology	4
BIOL	3400K	Genetics	4
BIOL	4410K	Molecular Biology	4
CMPS	1301	Principles of Programming I	3
CMPS	1371	Computing for Scientists and Engineers	3
MATH	2200	Introduction to Statistics	3
GEOL	2120	Introduction to Environmental Geology	3

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