MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS CHEMISTRY**
Option: **ENVIRONMENTAL**
Major Field Requirements: **50.0 Credits**
Other Requirements: **31.0-32.0 Credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

REQUIRED CHEMISTRY COURSES (46.0 Credits)

Course	No.	Short Title	C.H.	Grade
CHEM	111	Intro Chemistry I	4.0	
CHEM	112	Intro Chemistry II	4.0	
CHEM	188	Freshman Seminar	1.0	
CHEM	231	Organic Chem I	4.0	
CHEM	232	Organic Chem II	4.0	
CHEM	251	Inorganic Chem I	3.0	
CHEM	265	Quant Analysis	4.0	
CHEM	375	Environmental Chem	4.0	
CHEM	341	Physical Chem I	4.0	
CHEM	342	Physical Chem II	4.0	
CHEM	465	Analytical Chem	4.0	
CHEM	476	Environmental Chem II	4.0	
CHEM	487	Seminar in Chem I	0.5	
CHEM	488	Seminar in Chem II	0.5	
CHEM	498	Independent Study	1.0	

CHEMISTRY ELECTIVES (4.0 Credits)

Course	No.	Short Title	C.H.	Grade
CHEM	312	Chem in Nanotech	3.0	
CHEM	324	Plant Biochemistry	4.0	
CHEM	326*	Biochemistry I	4.0	
CHEM	327	Biochemistry II	4.0	
CHEM	328	Analytical Biochem Lab	1.0	
CHEM	381	Polymer Chem I	4.0	
CHEM	391	Advanced Lab I	1.0	
CHEM	392	Advanced Lab II	1.0	
CHEM	300	Cooperative Educ	3.0	
CHEM	400	Cooperative Educ	3.0	
CHEM	435	Adv. Organic Chem	3.0	
CHEM	452	Inorganic Chem II	3.0	
CHEM	486	Topics in Chemistry	1.0-4.0	
CHEM	489	Department Honors	1.0-3.0	
CHEM	498	Independent Study	1.0-3.0	
CHEM	499	Department Honors	1.0-3.0	

* This elective is recommended for the Environmental Option by the American Chemical Society.

REQUIRED RELATED (31.0-32.0 credits)

Mathematics (12.0 credits)

Course	No.	Short Title	C.H.	Grade
MATH	161	Calculus I	4.0	
MATH	211	Calculus II	4.0	
MATH	311	Calculus III	4.0	

Physics (10.0 credits)

Course	No.	Short Title	C.H.	Grade
PHYS	231	Physics I with Calc	5.0	
PHYS	232	Physics II with Calc	5.0	

Biology

Competency equivalent to BIOL 100*

Select 3 courses from the following: (9.0-10.0 credits)

Course	No.	Short Title	C.H.	Grade
BIOL	241	Principles of Ecology	3.0	
ESCI	245	Environm. Meteorology	3.0	
ESCI	349	Chem of Atmosphere	3.0	
ESCI	426	Groundwater Geo.	3.0	
GEOG	202	Resources & Env.	3.0	
OSEH	321	Industrial Hygiene	4.0	

*Competency may be demonstrated by one of the following:
1) a course grade of "A" or "B" in AP Biology
2) a score of 3 or better in the national AP exam
3) a successful score on the CLEP exam
4) a passing grade for General Biology (BIOL 100)

General Electives (as necessary)
