

## MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS CHEMISTRY**  
 Option: **ENVIRONMENTAL**  
 Major Field Requirements: **50.0 credits**  
 Other Requirements: **31.0 credits**

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

Course No.	Short Title	C.H.	Grade	Q.P.	Course No.	Short Title	C.H.	Grade	Q.P.
<b>REQUIRED CHEMISTRY COURSES (46.0 credits)</b>					<b>REQUIRED RELATED (31.0 credits)</b>				
CHEM 111	Intro Chemistry I	4.0	_____	_____	<b>Mathematics (12.0 credits)</b>				
CHEM 112	Intro Chemistry II	4.0	_____	_____	MATH 161	Calculus I	4.0	_____	_____
CHEM 188	Freshman Seminar	1.0	_____	_____	MATH 211	Calculus II	4.0	_____	_____
CHEM 231	Organic Chem I	4.0	_____	_____	MATH 311	Calculus III	4.0	_____	_____
CHEM 232	Organic Chem II	4.0	_____	_____	<b>Physics (10.0 credits)</b>				
CHEM 251	Inorganic Chem I	3.0	_____	_____	PHYS 231	Physics I with Calc	5.0	_____	_____
CHEM 265	Quant Analysis	4.0	_____	_____	PHYS 232	Physics II with Calc	5.0	_____	_____
CHEM 375	Envir. Chem I	4.0	_____	_____	<b>Biology</b>				
CHEM 341	Physical Chem I	4.0	_____	_____	Competency equivalent to BIOL 100*				
CHEM 342	Physical Chem II	4.0	_____	_____	<b>Select 3 courses from the following: (9.0 credits)</b>				
CHEM 465	Analytical Chem	4.0	_____	_____	BIOL 241	Principles of Ecology	3.0	_____	_____
CHEM 476	Envir. Chem II	4.0	_____	_____	ESCI 245	Environmental Meteorology	3.0	_____	_____
CHEM 487	Seminar in Chem I	0.5	_____	_____	ESCI 349	Chem of Atmosphere	3.0	_____	_____
CHEM 488	Seminar in Chem II	0.5	_____	_____	ESCI 426	Groundwater Geo.	3.0	_____	_____
CHEM 498	Independent Study	1.0	_____	_____	GEOG 202	Resources & Env.	3.0	_____	_____
<b>CHEMISTRY ELECTIVES (4.0 credits)</b>					OSEH 321	Industrial Hygiene	4.0	_____	_____
CHEM 324	Plant Biochemistry	4.0	_____	_____	<b>General Electives (as necessary)</b>				
CHEM 326*	Biochemistry I	4.0	_____	_____	_____	_____	_____	_____	_____
CHEM 327	Biochemistry II	4.0	_____	_____	_____	_____	_____	_____	_____
CHEM 328	Analyt Bioc Lab	1.0	_____	_____	_____	_____	_____	_____	_____
CHEM 381	Polymer Chemistry I	4.0	_____	_____	_____	_____	_____	_____	_____
CHEM 391	Advanced Lab I	1.0	_____	_____	_____	_____	_____	_____	_____
CHEM 392	Advanced Lab II	1.0	_____	_____	_____	_____	_____	_____	_____
CHEM 300	Cooperative Educa.	3.0	_____	_____	_____	_____	_____	_____	_____
CHEM 400	Cooperative Educa.	3.0	_____	_____	_____	_____	_____	_____	_____
CHEM 435	Adv. Org. Chem	3.0	_____	_____	_____	_____	_____	_____	_____
CHEM 452	Inorganic Chem II	3.0	_____	_____	_____	_____	_____	_____	_____
CHEM 486	Topics in Chemistry	1.0-4.0	_____	_____	_____	_____	_____	_____	_____
CHEM 489	Departmental Honors	1.0-3.0	_____	_____	_____	_____	_____	_____	_____
CHEM 498	Independent Study	1.0-3.0	_____	_____	_____	_____	_____	_____	_____
CHEM 499	Departmental Honors	1.0-3.0	_____	_____	_____	_____	_____	_____	_____
<p>* This elective is recommended for the Environmental Option by the American Chemistry Society.</p>					<p>*Competency may be demonstrated by one of the following:</p> <ol style="list-style-type: none"> <li>1) a course grade of "A" or "B" in AP Biology</li> <li>2) a score of 3 or better in the national AP exam</li> <li>3) a successful score on the CLEP exam</li> <li>4) a passing grade for General Biology (BIOL 100)</li> </ol>				