

CHEMISTRY MAJOR
Bachelor of Science Degree-Environmental Chemistry Emphasis
 126 Semester Hours Minimum

Name _____
 Campus Address _____ Phone _____
 Second Major _____ Minor 1 _____ Minor 2 _____
 Transferred _____ credits from _____ Advisor _____

Chemistry Courses

_____ 860:044 General Chem I 4 hr
 _____ 860:048 Gen Chem II 4 hr

or

_____ 860:070 Gen Chem I-II 5 hr

_____ 860:120 Organic Chem I 3 hr

_____ 860:121 Organic Chem Lab I 2 hr

_____ 860:123 Organic Chem II 3 hr

Cognate Courses

_____ 860:132 Quantitative Analysis 4 hr

_____ 860:137 Instrumental Analysis 4 hr

_____ 860:138 Environmental Chemistry 3 hr

_____ 860:140 Physical Chem:Thermo 3 hr

_____ 860:141 Physical Chem:Kinetics 3 hr

_____ 860:143 Physical Chem Lab 2 hr

_____ 860:180 Undergraduate Research 2 hr

34-37 hours

Math & Physics Courses

_____ 800:060 Calculus I 4 hr

_____ 800:061 Calculus II 4 hr

_____ 880:054 General Physics I 4 hr

_____ 880:056 General Physics II 4 hr

16 hours

Environmental Science Core:

_____ 830:130 Environmental Science 3 hr

_____ 840:051 General Biology I 4 hr

_____ 840:052 General Biology II 4 hr

_____ 870:031 Physical Geology 4 hr

and one of the following:

_____ 840:151 General Microbiology 4 hr

_____ 840:168 Ecology 3 hr

_____ 870:171 Environmental Geology 3 hr

_____ 920:123 Environmental Economics 3 hr

21 - 22 hours

Total: 68-72 hours

General Education (43 hours minimum)

Category I: Civilization & Cultures (11 hrs)

_____ A. Humanities I 4 Hrs

_____ Humanities II 4 Hrs

_____ B. Non-Western Cultures

_____ 3 Hrs

Category II: Fine Arts, Literature, Philosophy,
and Religion (6 hrs)

_____ A. Fine Arts

_____ 3 Hrs

_____ B. Literature, Philosophy, or Religion

_____ 3 Hrs

Category III: Natural Science & Technology
(5 hrs)

 X A. Sphere I Satisfied (860:044 or 070)

4 Hrs

 X B. Sphere II 3 Or 4 Hrs

_____ C. Capstone 2 Hrs

Category IV: Social Science (9 hrs total)

_____ Group A
_____ 3-6 Hrs

 X Group B 3 Hrs

_____ Group C

_____ 0-3 Hrs

Category V: Communication Essentials (9 hrs)

_____ A. Writing and Reading

_____ 3 Hrs

_____ B. Speaking and Listening

_____ 3 Hrs

_____ C. Quant Techniques & Understanding

_____ 3 Hrs

Category VI: Personal Wellness (3 hrs)

_____ 440:010 Personal Wellness 3 Hrs

Major in Chemistry - Bachelor of Science-Environmental Emphasis
SUGGESTED SCHEDULE

FRESHMAN YEAR

<u>FALL</u>		<u>SPRING</u>	
860:044 General Chemistry I	4	860:048 General Chemistry II	4
800:046 Elementary Analysis*	4	800:060 Calculus I	4
840:051 General Biology I	4	840:052 General Biology	4
General Education	<u>4</u>	General Education	<u>4</u>
	16		16

SOPHOMORE YEAR

<u>FALL</u>		<u>SPRING</u>	
860:120 Organic Chemistry I	3	860:123 Organic Chemistry II	3
860:121 Organic Chemistry Lab I	2	870:031 Physical Geology	4
800:061 Calculus II	4	880:056 General Physics II	4
880:054 General Physics I**	4	General Education	<u>5</u>
General Education	<u>3</u>		16
	16		

JUNIOR YEAR

<u>FALL</u>		<u>SPRING</u>	
860:140 Physical Chemistry:Thermo	3	860:141 Physical Chemistry: Kinetics	3
860:132 Quantitative Analysis	4	860:138 Environmental Chemistry	3
General Ed/Electives	<u>10</u>	860:143 Physical Chemistry Lab	2
	17	General Ed/Electives	<u>8</u>
			16

SENIOR YEAR

<u>FALL</u>		<u>SPRING</u>	
860:137 Instrumental Analysis	4	860:180 Undergraduate Research	1
860:180 Undergraduate Research	1	830:130 Environ Sci****	4
Environ Sci Elect***	3 or 4	Gen Ed/Electives	<u>11</u>
Gen Ed/Electives	<u>8</u>		16
	16		

* Well-prepared students may enroll in 800:060 Calculus I as first college math course.

** 880:130-Physics I and 880:131-Physics II may be substituted for the stated physics requirement.

*** Environmental science elective will consist of one of the following courses: 840:151-General Microbiology, 840:168-Ecology, 870:171-Environmental Geology, 920:123-Environmental Economics.

**** Prerequisites for Environmental Science include 920:024-Introduction to Economics.

Total Hours

Major Courses	68-72 hours
General Education Courses	43 hours
University Electives	<u>15-19 hours</u>
	130 hours minimum

ADVISING NOTE: The above program represents one example of a variety of alternative schedules for completing the Chemistry B.S. Major with environmental chemistry emphasis. Requirements are subject to change.

