

**Environmental Science (B.S.)**  
(Department of Biological Sciences)

Major Requirements

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
[BIOL 160] Molecular and Cellular Biology	4	
[BIOL 161] Animal Form and Function	3	
[BIOL 162] Plant Form and Function	3	
[BIOL 260] Genetics and Development	3	
[BIOL 262] Ecology and Adaptation	4	
[BIOL 271] Ecological Field Techniques	2	
[BIOL 274] Environmental Science	3	
[BIOL 315] Environmental Ethics	3	
One of the following:	4	
[BIOL 321] Mycology (4)		
[BIOL 332] Plant Taxonomy (4)		
<i>One of the following:</i>	4	
[BIOL 356] Ornithology (4)		
[BIOL 358] Herpetology (4)		
<i>One of the following:</i>	3	
[BIOL 495] Capstone: Natural Sciences (3)		
[SUST 495] Capstone: Sustainability Studies (3)	3	
[CHEM 105] General Chemistry I	4	
[CHEM 106] General Chemistry II	4	
[CHEM 204] Introduction to Organic Chemistry *	4	
[CHEM 340] Environmental Chemistry *	4	
Six credits approved electives **	6	
<i>One of the following:</i>	3 - 7	
[MATH 108] Intuitive Calculus with Applications (3)		
[MATH 109] Calculus, Part I (4) & [MATH 110] Calculus, Part II (3)		
[MATH 111] Calculus I (4)		
<i>One of the following:</i>	3	
[PHIL 101] Problems in Philosophy (3)		
[PHIL 102] History of Philosophy (3)		
[STAT 269] Introductory Statistics	3	
[GIS 245] Introduction to Geographical Information Systems	3	

\*All Environmental Science majors must take CHEM 204 and CHEM 340. Those students intending to enter graduate school and whose work will involve a significant amount of chemical emphasis should substitute CHEM 309, 310 for CHEM 204.

\*\*All Environmental Science majors are encouraged to complete one course at AuSable Institute. AuSable courses can count only as elective credit. Majors are encouraged to do an internship and/or research experience.

General Education requirements on reverse side

August 2011

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General Education Requirements

<u>Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
First Year Seminar	3	
Oral Communications	3	
Created and Called for Community	3	
Mathematical Sciences ( <a href="#">[MATH 108]</a> , <a href="#">[MATH 109]</a> or <a href="#">[MATH 111]</a> )	3 or 4	<u>met by major</u>
Laboratory Science ( <a href="#">[BIOL 160]</a> , <a href="#">[BIOL 161]</a> , <a href="#">[BIOL 162]</a> , or <a href="#">[CHEM 105]</a> )	3 or 4	<u>met by major</u>
Science, Technology & the World ( <a href="#">[BIOL 274]</a> )	3	<u>waived</u>
<b>Two</b> of the following:	6	
Social Science (3 credits)( <a href="#">[ECON 117]</a> )		
European History (3 credits)		
United States History (3 credits)		
Literature	3	
Philosophy and Religion ( <a href="#">[PHIL 101]</a> or <a href="#">[PHIL 102]</a> )	3	<u>met by major</u>
Arts	3	
Language/Cross Cultural		
First Semester of Language	3	
Second Semester of Language	3	
Third Semester of Language or Cross Cultural	3	
Non-Western Studies	2 or 3	
Bible	3	
Christian Beliefs	3	
Health and Physical Fitness		
Introduction to Wellness	2	
Activity Course	1	
<b>One</b> of the following:	3	
Ethics 3 credits –( <a href="#">[BIOL 315]</a> )		<u>met by major</u>
World Views (3 credits)		
Pluralism in Contemporary Society (3 credits)		
Writing Enriched Course		

SUMMARY OF DEGREE REQUIREMENTS:

General Education	41-42
Major Requirements	70-74
Free Electives	7-12
<b>Total</b>	<b>123</b>

Major requirements on reverse side