## **B.S. IN ENVIRONMENTAL SCIENCE**

Code	Title	Credits
Major in Environmental		
BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab	
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	4
BIO 218	Biology in a Changing World	3
BIO 495	Biology Seminar	2
CHE 113 & CHE 113D	General Chemistry I and General Chemistry I Lab	4
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab	4
CHE 312 & CHE 313	Quantitative Analysis and Quantitative Analysis Lab	4
ENS 104 & ENS 104D	Environment and Humanity and Environment and Humanity Lab	4
ENS 330 & ENS 331	Ecology and Ecology Lab	4
ENS 399	Introduction to Besearch	1
ENS 499	Symposium	0
Choose one of the follow		2-3
ENS 496	Research in Environmental Science	
ENS/BIO 497	Advanced Research in Environmental Science	
or		
ENS 481	Internship in Environmental Studies	
Choose one course from the following: 3-4		
ENS 318KZ	Ecology in the Tropics: Natural History and Future Prospects	
ENS 335K	Environmental Ethics	
GEO/HIS 320K	History and the Human Environment	
GES 326K	Economic Botany	
Choose one of the follow	wing Environmental Area Courses:	4
BIO 328 & BIO 329	Invertebrate Biology and Invertebrate Biology Lab	
BIO 342 & BIO 343	Aquatic Biology and Aquatic Biology Lab	
BIO 346 & BIO 347	Animal Behavior and Animal Behavior Lab	
BIO 372 & BIO 373	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab	
BIO 380 & BIO 383	Environmental Plant Biology and Environmental Plant Biology Lab	
ENS 316 & ENS 317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab	
ENS 318KZ	Ecology in the Tropics: Natural History and Future Prospects	

Choose one of the following:			
BIO 234 & BIO 235	Microbiology and Microbiology Lab		
BIO 326 & BIO 327	Vertebrate Histology and Vertebrate Histology Lab		
BIO 332 & BIO 333	Genetics and Genetics Lab		
BIO 338 & BIO 339	Endocrinology and Endocrinology Lab		
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab <sup>3</sup>		
BIO 358 & BIO 359	Neurobiology and Neurobiology Lab		
BIO 368 & BIO 369	Structure and Development of Vertebrates and Structure and Development of Vertebrates Lab		
BIO 376 & BIO 377	Animal Physiology and Animal Physiology Lab		
CHE 304 & CHE 397	Essentials of Biochemistry and Biochemistry II Lab <sup>4</sup>		
CHE 320 & CHE 321	Instrumental Analysis and Instrumental Analysis Lab		
CHE 388 & CHE 389	Biochemistry I and Biochemistry I Lab <sup>2</sup>		
Au Sable Institute Courses			
BIOL/GEOL/GEOG 301 Land Resources			
BIOL/ENVST/GEOG 330 Geographic Information Systems			
Au Sable Elective			
Additional Biology Electives from Environmental Area (or may be taken through Au 8 Sable)			

Code	Title	Credits
Major		67-69
General Education		40-41
Electives		13-14
<b>Total Credits</b>		122

Recommended option to complete the major in 3.5 years.

Courses whose number is followed by a letter fulfill a General Education requirement.

With permission of the Department Chair, appropriate courses taken in other off-campus programs may substitute for those listed above.

Students are strongly urged to meet the "M" tag (Mathematics) General Education requirement by taking an introductory statistics course such as PSY 230M or MAT 207M.

<sup>&</sup>lt;sup>2</sup> CHE 226/CHE 227 is a prerequisite for this course.

CHE 224/CHE 225 is a prerequisite for this course.

Students requiring CHE 397 for their degree will require an override to take this course concurrently with CHE 304.