

B.A. IN BIOLOGY

Code	Title	Credits
Major in Biology (B.A.)		
BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab	4
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 399	Introduction to Research	1
BIO 495	Biology Seminar	2
Choose an applied experience:		2-4
BIO 481	Internship in Biology	
BIO 496 & BIO 497	Biology Research and Advanced Biology Research	
BIO 499	Biology Symposium	0
Choose one course from each of the following three areas, at least one of which must be a designated research course		
Environmental area courses:		4
BIO 316 & BIO 317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab	
BIO 318KZ	Ecology in the Tropics: Natural History and Future Prospects	
BIO 328 & BIO 329	Invertebrate Biology and Invertebrate Biology Lab	
BIO 330 & BIO 331	Ecology and Ecology Lab ¹	
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 ¹	
Courses from Au Sable Institute of Environmental Studies		
Organismic area courses:		4
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab ³	
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	
BIO 326 & BIO 327	Vertebrate Histology and Vertebrate Histology Lab	
BIO 338 & BIO 339	Endocrinology and Endocrinology Lab	
BIO 358 & BIO 359	Neurobiology and Neurobiology Lab	

B.A. in Biology 2

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

Cell and molecular area courses: 4

BIO 234 & BIO 235	Microbiology and Microbiology Lab
BIO 332 & BIO 333	Genetics and Genetics Lab
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab ^{1,4}
BIO 362 & BIO 363	Developmental Biology and Developmental Biology Lab ¹
BIO 384 & BIO 387	Immunology and Immunology Lab ¹
BIO 396 & BIO 397	Molecular Biology and Molecular Biology Lab ^{1,5}
CHE 304 & CHE 397	Essentials of Biochemistry and Biochemistry II Lab ^{4,6}
CHE 388 & CHE 389	Biochemistry I and Biochemistry I Lab ²

Electives from 200 level or above biology courses 16

Two chemistry courses, excluding CHE 200 4-8

Code	Title	Credits
Major		48-54
General Education		43-44
Electives		25-30
Total Credits		122

¹ This is a designated research course.

² CHE 226/CHE 227 is a prerequisite for this course.

³ BIO 214/BIO 215 is a prerequisite for this course.

⁴ CHE 224/CHE 225 is a prerequisite for this course.

⁵ BIO 332/BIO 333, CHE 224/CHE 225, and CHE 226/CHE 227 are prerequisites for this course.

⁶ Students requiring CHE 397 for their degree will require an override to take this course concurrently with CHE 304.

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

Students may not declare a B.A. in Biology and a B.S. in Biology.

Students may not declare a B.A. in Biology and a Minor in Biology.