

Biology: Wildlife and Conservation Concentration

Bismarck State College (AS) and University of Mary

Freshman:	Fall		UMary Equivalent
BIOL 150/150L	General Biology 1 and Lab (Math/Sci/Tech)	3/1	BIO 103/L
CHEM 121/121L	General Chemistry I/Lab (Math/Sci/Tech)	4/1	CHE 111/L
POLS 115	American Government (Soc Sci)	3	POL 101
ENGL 110	College Comp I (Comm)	3	ENG 111
BSC	Enrichment Elective	2	--
	Fall Credits	17	
	Spring		
ENGL 120	College Comp II (Comm)	3	ENG 121
ANT 170 or SOC 110 or SOC 115 or HIST 211 or HIST 212	Intro. to Cultural Anthropology or Intro. to Sociology or Social Problems or World Civ. I or World Civ. II (Soc Sci or Arts & Humanities; Diversity)	3	Core Elective
COMM 110	Fundamentals of Public Speaking (Comm)	3	COM 110
BIOL 151/151L	General Biology II/Lab (Math/Sci/Tech)	3/1	BIO 106/L
CHEM 122/122L	General Chemistry II/Lab (Math/Sci/Tech)	4/1	CHE 112/L
	Spring Credits	18	
	Total Freshman Credits	35	
Sophomore:	Fall		
PHIL 210	Ethics (Arts & Humanities)	3	PHI 208
GIS 105	Fundamentals of Geographic Information Systems (or other elective)	3	CRS
CHEM 241/241L	Organic Chemistry I/Lab	4/1	CHE 217/L
MAT 165	Calculus 1 (Math/Sci/Tech)	3	MAT 209
	Fall Credits	14	
	Spring		
Elective	Behavioral & Social Sciences Elective	3	Elective
GIS 107	GIS Applications (or other elective)	4	CRS
RELS	RELS Course (Arts & Humanities)	3	THE 120
CHEM 242/242L	Organic Chemistry II/Lab	4/1	CHE 318/L (LL)
	Spring Credits	15	
	Total Sophomore Credits	29	
	Total BSC Credits	64	(62→UMary)
Junior:	Fall		
HUM 322	Transfer Seminar	1	
BIO 311	Genetics	4	
PHY 203	Physics	4	
BIO 312 or 309	Parasitology or Microbiology	4	
BIO 422 or 432	Ecology or Wildlife Ecology and Management	4	
	Fall Credits	17	
	Spring		
PHY 304	Intermediate Physics	4	
BIO 354	Botany	4	
BIO 415 or 433	Conservation Biology or Range Management	4	
MAT Elective	MAT 204, 206, or 210	4	
	Spring Credits	16	
	Total Junior Credits	33	

Senior:	Fall		
BIO 312 or 309	Parasitology or Microbiology	4	
BIO 422 or 432	Ecology or Wildlife Ecology and Management	4	
BIO 333 or 339	Ornithology or Mammalogy	4	
Elective	Elective	3	
	Fall Credits	15	
	Summer		
Internship	Wildlife/Conservation Biology Internship		
	Spring		
BIO 450	Evolution and the Integration of Knowledge	3	
CHE 310	Biochemistry	4	
BIO 415 or 433	Conservation Biology or Range Management	4	
Elective	Elective	3	
HUM 499	Senior Competences Assessment	0	
	Spring Credits	14	
	Total Senior Credits	29	
	Total UMary Credits	62	
	Total Bachelor's Degree Credits	124	

Note: Because some biology courses (e.g. Microbiology) are offered every other year, it is important for students to consider the rotation of courses in planning their programs of study to ensure they take these courses in the appropriate year.

Biology Electives: Students must take five biology electives selected from three major areas of study. Of the five, at least one course must be taken from each of the three areas. These electives are in addition to the required biology courses.

Organismal & Systematics Area

BIO 207	Human Anatomy and Physiology I	(Bio 207 & 208 together count as 1 elective)
BIO 208	Human Anatomy and Physiology II	
BIO 312	Parasitology	
BIO 330	Zoology	
BIO 421	Advanced Physiology	
BIO 339	Mammalogy	
BIO 333	Ornithology	

Cell and Molecular Area

BIO 309	Microbiology
BIO 310	Cell and Molecular Biology
BIO 314	Histology
BIO 318	Immunology and Serology
BIO 319 and 320	Hematology and Hematology Lab
BIO 417	Developmental Biology

Environmental Area

BIO 326	Environmental Biology
BIO 415	Conservation Biology
BIO 422	Principles of Ecology
BIO 423	Animal Behavior
BIO 433	Range Management
BIO 432	Wildlife Management