

Environmental Biology Option

Freshman Year	Credits	
	Fall	Spring
ENSC 110 - Land Resources and Environmental Sciences	3	
BIOB 170IN - Principles of Biological Diversity	4	
CHMY 141 - College Chemistry I & CHMY 142 - College Chemistry I Lab	4	
WRIT 101W - College Writing I	3	
M 161Q - Survey of Calculus		4
BIOB 160 - Principles of Living Systems	4	
CHMY 143 - College Chemistry II & CHMY 144 - College Chemistry II Lab	4	
US Core		3
Year Total:	14	15
Sophomore Year	Credits	
	Fall	Spring
ENSC 245IN - Soils	3	
GPHY 284 - Intro to GIS Science & Cartog	3	
PHSX 205 - College Physics I	4	
Take one of the following:	3	
BIOB 318 - Biometry		
STAT 216Q - Introduction to Statistics		
STAT 332 - Statistics for Scientists and Engineers		
Univ. Core	3	
CHMY 211 - Elements of Organic Chemistry & CHMY 212 - Elements of Organic Chemistry Lab		5
BIOM 360 - General Microbiology		5
ENSC 210 - Role of Plants in the Environment	3	
ENSC 260 - Evolution for Env Scientists	3	
Year Total:	16	16
Junior Year	Credits	
	Fall	Spring
ENSC 353 - Environmental Biogeochemistry	3	
Take one of the following:	3	
BIOE 370 - General Ecology		
NRSM 240 - Natural Resource Ecology		
BCH 380 - Biochemistry & BCH 381 - Biochemistry Lab	5	
Univ. Core	3	
BIOM 452 - Soil & Environmntl Microbiology		3
WRIT 201 - College Writing II or HONR 202IH - Texts and Critics: Knowledge & Imagination II		3
Take one of the following:		3
BIOM 415 - Microbial Diversity, Ecology, and Evolution (even years)		
BIOE 455 - Plant Ecology		
BIOE 422 - Insect Ecology (odd years)		
ENSC 311 - Fundamentals of Environmental Data Analysis		3
Univ. Core		3

Year Total:	14	15
Senior Year	Credits	
	Fall	Spring
ENSC 444 - Watershed Hydrology	3	
Take one of the following:	3	
NRSM 430 - Natural Resource Law		
PSCI 362 - Natural Resource Policy		
Directed Electives	6	
Univ. Core	3	
ENSC 468 - Ecosystem Biogeochem and Global Change		3
ENSC 499R - LRES Capstone		3
Directed Electives		9
Year Total:	15	15
Total Program Credits:		120

Directed Electives

Each student shall work closely with their faculty advisor to plan an integrated set of elective courses appropriate to their academic, professional and personal goals. Courses not on this list may be used IF considered appropriate to the student's goals AND approved by the faculty advisor as a curricular exception. Students choosing to take lower level courses (1xx/2xx) for directed electives should be sure they are meeting the university minimum requirement of 42 credits of upper level classes (3xx/4xx) for graduation.

Choose 15 credits from the following:

AGSC 401	Integrated Pest Management	3
BIOB 375	General Genetics	3
BIOB 420	Evolution	3
BIOE 375	Ecological Responses to Climate Change	3
BIOE 405	Behavioral and Evolutionary Ecology	3
BIOE 408	Rocky Mountain Vegetation	3
BIOE 428	Freshwater Ecology	3
BIOM 410	Microbial Genetics	3
BIOM 423	Mycology (even years)	3
BIOM 430	Applied and Environmental Microbiology	4
BIOM 450	Microbial Physiology	3
BIOM 455R	Research Mthds in Microbiology	4
BIOO 310	Comparative Vertebrate Anatomy	4
BIOO 412	Animal Physiology	3
BIOO 415	Ichthyology	0,3
BIOO 433	Plant Physiology	3
BIOO 470	Ornithology	0,3
BIOO 475	Mammalogy	0,3
ECNS 332	Econ of Natural Resources	3
ENSC 407	Environmental Risk Assessment	3
ENSC 410R	Biodiversity Survey and Monitoring Methods	3
ENSC 443	Weed Ecology and Management	3
ENSC 445	Watershed Analysis	3
ENSC 448	Stream Restoration Ecology	3
ENSC 461	Restoration Ecology	3
ENSC 466	Chemical Ecology	3
GPHY 429R	Applied Remote Sensing	3
NRSM 421	Holistic Thought/Mgmt	4
M 172	Calculus II	4

NRSM 453	Habitat Inventory and Analysis	0,3
WILD 301	Princ of Fish & Wildlife Mgmt	3
STAT 217	Intermediate Statistical Concepts	3
or STAT 337	Intermediate Statistics with Introduction to Statistical Computing	
STAT 411	Methods for Data Analysis I	3
WILD 438	Wildlife Habitat Ecology	3

Because some of our courses are offered during alternate years, the proposed scheduling of courses in junior and senior years may need to be modified. Work with an advisor to determine an individual schedule.

A minimum of 120 credits is required for graduation; at least 42 of these credits must be in courses numbered 300 and above.
