BIOLOGY, B.S. -ENVIRONMENTAL BIOLOGY OPTION

M	ajor in Biolo	ogy, BS	
Co	de	Title	Hours
CC	RE COURSES	(C- or higher required)	24
	Foundations o	f Biology - See Appendix 1	
	BIOL 211	Concepts of Zoology	
	BIOL 221	Concepts of Botany	
	BIOL 343	Principles of Ecology & Evolution	
	BIOL 362	Cell and Developmental Biology	
	BIOL 364	Foundations of Genetics & Molecular Biology	
Op	tion in Environ	mental Biology - See separate block	
То	tal Hours		24

Appendix 1. Foundations of Biology

Code	Title	Hours
Foundations of Biology C- or Higher		
BIOL 101	Foundations of Biology	

Concentration in Environmental Biology

Code	Title	Hours
REQUIRED ENVIR	RONMENTAL BIOLOGY COURSES	
BIOL 344	Population Community Ecology	3
BIOL 446	Ecosystems	3
Seminar in Enviro	onmental Biology	2
BIOL 472	Seminar In Biology	
DIRECTED ELECT	IVES IN ADVANCED ECOLOGY	
undefined - Choo	se 2 of the following:	6
BIOL 325	Plant Systematics	
BIOL 329	Plant-Insect Interactions	
BIOL 442	Wildlife Ecology & Management	
BIOL 443	Conservation Biology	
BIOL 445	Aquatic Biology	
BIOL 486	Behavioral Ecology	
BIOL 325 is red advanced ecol	commended as one of your directed electives in logy.	
ORGANISMAL BIOLOGY		
undefined - Choos	se 1 of the following:	3-4
BIOL 346	Ornithology	
BIOL 396	Ichthyology	
BIOL 415	Mammalogy	
BIOL 416	Entomology	
BIOL 418	Aquatic Entomology	
BIOL 424	Mycology	
BIOL 361	Microbiology	
PRACTICAL EXPE	ERIENCE IN ENVIRONMENTAL BIOLOGY	
undefined - Choo	se 1 of the following:	4-15
BIOL 300	Co-Op Ed Experience in Biol	

BIOL 489	Honors Course
BIOL 498	Independent Study
BIOL 499	Departmental Honors
Choose one of the above for a minimum of 1 credit. Co-op	
must involve research approved by advisor and result in co-op/	
internshin and	scientific research naners

ELECTIVES

-	ELECTIVES	
ι	undefined - Choose 1 hour from:	1
	Any 3-level BIOL course(s)	
	Any 4-level BIOL course(s)	
	Note: This requirement may not be satisfied with BIOL 340 or BIOL 390.	
	In consultation with your advisor, choose additional courses that would count towards the Biology Major to bring total to 46 minimum credits in the major. Note: BIOL 375 may NOT be used as an elective if used to fulfill the statistics requirement in required	

Total Hours 22-34

Req Related for Biology, BS

related courses

Code	Title	Hours

For Biology Majors the G2 block of the Liberal Arts Core will be fulfilled by your required related coursework.

Introductory Chemistry 1

CHEMISTRY

CHEM 111

A C- or higher in CHEM 111 and 112 is a pre-requisite for CHEM 235. A C- or higher in CHEM 231 is a pre-requisite for CHEM 232. Students interested in graduate or professional school should take CHEM 231 and 232.

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CHEM 112	Introductory Chemistry 2	4
Organic Chemist	try - Choose 1 of the following options 1-2:	4-8
Option 1. Orga	anic Chemistry I and II	
CHEM 231	Organic Chemistry 1	
CHEM 232	Organic Chemistry 2	
Option 2. Sho	rt Course in Organic Chemistry	
CHEM 235	Organic Chemistry	
Env Chemistry I	Lab	4
CHEM 375	Environmental Chemistry	
MATHEMATICS	FOR ENVIRONMENTAL BIOLOGY	
Biometry (recomfollowing:	nmended) or Survey of Statistics - Choose 1 of the	3
BIOL 375	Biometry	

following:	interfaced of our vey of oracionics of foodse i of the	J
BIOL 375	Biometry	
MATH 235	Survey of Statistics	
Calc for Mgmt, C following:	alculus I or Honors Calculus - Choose 1 of the	4-5
MATH 151	Calculus for Management	
MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	
PHYSICS		
	and af also fallousing analogue 1.0.	0.10

undefined - Choose 1 of the following options 1-2:

Option 1. Physics with Algebra

PHYS 131 Physics 1 with Algebra

PHYS 132 Physics 2 with Algebra

Option 2. Physics with Calculus

PHYS 231	Physics 1 with Calculus	
PHYS 232	Physics 2 with Calculus	
ENVIRONMENTA	L SCIENCE	
undefined - Choo	se 2 of the following:	6-8
CHEM 265	Quantitative Analysis	
CHEM 476	Environmental Chemistry 2	
ESCI 281	GIS Applications for Earth Sci	
ESCI 322	Environmental Hydrology	
ESCI 349	Chemistry of the Atmosphere	
GEOG 227	Cities	
GEOG 281	Maps and GIS	
GEOG 295	GIS I: Vector Data Analysis	
GEOG 304	Water Resources Management	
GEOG 306	Environmental Impact Assessmnt	
GEOG 372	Urban and Regional Planning	
OSEH 220	Legal Aspects Environmental Safety	
OSEH 321	Environmental & Industrial Hygiene I - Chemical and Biological Hazards	
Students are encouraged to complete a minor in Environment		

Students are encouraged to complete a minor in Environmenta Science and to choose courses from the list above that count in the desired minor. Click here for more information on environmental minors.

Total Hours 37-46