

ENVIRONMENTAL SCIENCE MAJOR

(BS PROGRAM)

BIOLOGY CONCENTRATION

2017-2018 Catalog

Information Sheet



EDGEWOOD COLLEGE

This Information Sheet is for advising purposes only. Do not submit this form as a Major/Minor Declaration Form; a separate form is required to declare your major/minor.

Requirements for the Environmental Science major include 11 core credits and at least 45 additional credits in the Biology Concentration.

Completion of the Biology Concentration includes participation in independent research. Each Biology Concentration student will present his/her research project in the Biology Seminar (BIO 480). Biology concentration students should consult with their advisor about this requirement at the time that the major is declared.

Major Requirements:

Core Courses for the Major:

BIO 151	ESU	General Biology: Ecology, Genetics and Evolution*
OR		
BIO 181	ESU	Honors Gen Bio: Ecology, Genetics and Evolution*
ENVS 216/ GEOS 206	EV	Environmental Geology
BIO 250/ ENVS 250	EV	Introduction to Environmental Science

Biology Concentration:

Concentration totals: minimum of 56 credits (including major core (11), requirements for concentration (11), electives (18), research sequence (6-7), Chemistry (8), and Math (2-4).

BIO 152	S	General Biology: Cells and Molecules*
OR		
BIO 182	S	Honors General Biology: Cells and Molecules*
BIO 401		Genetics*
BIO 450	E	Ecology*

Required 3-semester sequence for Biology Concentration

BIO 251	IX	Introduction to Biology Research I*+
BIO 252		Introduction to Biology Research II*+
OR		
BIO 489		Field/Laboratory Research*+
BIO 480	3K	Biology Seminar*

+ Instructor approval required

One of the following courses sets:

CHEM 106	S	Chemistry in Context*
AND		
CHEM 115	S	Chemistry of Energy & Society*
CHEM 120	S	General Chemistry I*
AND		
CHEM 121	S	General Chemistry II*

One of the following Mathematics courses:

MATH 114A	M	Precalculus A: College Algebra*
MATH 114B		Precalculus B: Trigonometry*
MATH 231	M	Calculus I*

18 Electives (including 8 Biology credits) and at least one of the following Biology with Lab Courses:

BIO 353		Organismal Biology*
BIO 312	S	Microbiology*

The remainder of elective credits to be selected from:

BIO 204		Field Biology
BIO 206	EV	Natural Communities of Wisconsin
BIO 275	E	Dendrology: Trees & Shrubs of Wisconsin
BIO 292		Biology Excursions*
BIO 333	E	Ecological History of Civilization*
BIO 351		Organismal Botany*
BIO 352		Organismal Zoology*
BIO 369A	2EG	Special Topics: Galapagos*
BIO 425		Animal Physiology
BIO 430		Animal Behavior*
BIO 479		Independent Study in Biology*
BIO 489		Field /Laboratory Research*
CHEM 200	2E	Green and Sustainable Chemistry*
GEOS 102	S	Introduction to Earth Science*
GEOS 103	S	Oceans & Atmosphere*
GEOS 203	S	Historical Geology*
GEOS 265	E	Environmental Conservation
GEOS 266		Mapping Wisconsin
GEOS 292		Geoscience Excursions*
GEOS 301	S	Weather and Climate*
GEOS 469		Special Topics in Geoscience

**course has prerequisites*

Policies:

Transfer students must take a minimum of 12 biology credits (for Biology Concentration).

Students with specific goals for careers or post-graduate study may be advised to take some courses at the University of Wisconsin-Madison through Edgewood College's Collaborative Program.

Biology Concentration students must maintain a cumulative GPA of 2.5 or higher in ALL BIOLOGY courses used to fulfill the major requirements (courses listed on Degree Audit). Only Biology, Chemistry, Geoscience or Math courses in which the student receives a grade of CD or better will be accepted towards the major.