

# ENVIRONMENTAL SCIENCE (BS PROGRAM)

## MAJOR: BIOLOGY CONCENTRATION

2016-2017 Catalog

Declaration of Major



EDGEWOOD COLLEGE

Name: \_\_\_\_\_ ID: \_\_\_\_\_

Major Advisor Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Department Chair Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Intended Graduation Month: January August May Intended Graduation Year: \_\_\_\_\_

THIS FORM IS TO ADD/DECLARE A MAJOR. IF YOU WISH TO DROP/REMOVE A PREVIOUSLY DECLARED MAJOR, YOU MUST SUBMIT A SEPARATE MAJOR DECLARATION DROP FORM. THIS FORM IS AVAILABLE AT REGISTRAR.EDGEWOOD.EDU

Requirements for the Environmental Science major include 11 core credits and 45-48 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:

### Transfer credit applied (including AP/CLEP/etc):

#### Core Courses for the Major:

#### Course / Institution

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

### Biology Concentration:

Concentration totals: 56-59 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: Genetics and Evolution*	
		OR	
BIO 182	S	Honors General Biology: Information Flow in Living Systems*	
BIO 401		Genetics*	
BIO 450	E	Ecology*	

Required 3-semester sequence for Biology Concentration

BIO 251	1X	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 to include 8 Biology credits at least one of the following Biology with Lab Courses:

BIO 312	S	Microbiology*
BIO 351		Organismal Botany*
BIO 352		Organismal Zoology*

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 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*

*\*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. Only Biology, Chemistry, Geoscience or Math courses in which the student receives a grade of CD or better will be accepted towards the major.