

ENVIRONMENTAL SCIENCE: BIOLOGY CONCENTRATION (BS PROGRAM)

Declaration of Major | 2014-2015 Catalog



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 10 core credits, 23-24 credits in the Biology Concentration or 27-29 credits in the Geoscience-Chemistry Concentration, and 18 Biology concentration or 14 Geoscience-Chemistry concentration elective credits

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 the requirement at the time that the major is declared.

Core Courses of the Major

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

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

Course/Institution:

BIOLOGY CONCENTRATION

Required Courses, 23-24 credits:

- BIO 152 S General Biology: Genetics and Evolution
OR
- BIO 182 S Honors General Biology: Information Flow in Living Systems
- BIO 251 IX Introduction to Biology Research
- BIO 401 Genetics*
- BIO 450 E Ecology*
- BIO 480 3 Biology Seminar

*Course has prerequisite

Including one of the following course sets:

- CHEM 106 S Chemistry in Context
AND
- CHEM 115 V Chemistry of Energy Sources & Society
OR
- CHEM 120 S General Chemistry I
AND
- CHEM121 S General Chemistry II

One of the following mathematics courses:

- MATH 114A M Precalculus A: Algebra,
- MATH 114B M Precalculus B: Trigonometry

MATH 231 M Calculus I

Electives, 18 credits:

Must include a minimum of 8 Biology credits and at least one of the following Biology with Lab Courses:

BIO 312 S Microbiology

BIO 351 Organismal Zoology*

BIO 352 Organismal Botany*

The remainder of the 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 469 Special Topics in Biology

BIO 479 Independent Study in Biology

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 Environmental Conservation

GEOS 266 Mapping Wisconsin

GEOS 292 Geoscience Excursions

GEOS 301 S Weather & Climate*

*Course has prerequisite

Concentration totals 51-52 credits

Policies:

Students majoring in Environmental Science should seek assistance in planning their program of study with an advisor in the department.

Transfer students must take a minimum of 12 biology credits Edgewood College.

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 GPA of 2.5 in biology courses.

A Biology course in which the student receives a grade below "CD" will not be accepted toward the Biology concentration.