

BIOLOGY TEACHING MAJOR WITH ENVIRONMENTAL SCIENCE (BS PROGRAM)

Declaration of Major | 2012-2013 Catalogue



EDGEWOOD COLLEGE

Name: _____ ID: _____

Major Advisor Approval: _____ Date: _____

Department Chair Approval: _____ Date: _____

Intended Graduation Month: January August May Intended Graduation Year: _____

This major is designed for individuals who wish to be certified to teach biology and/or environmental science at the secondary level (WDPI category Early Adolescence through Adolescence, Ages 10-21; WDPI license 605 and 615).

This major requires completion of the requirements listed below, the Education professional requirements and the licensing requirements for teacher education (see EDUCATION).

Biology Teaching majors with Environmental Science seeking Wisconsin certification will be required to pass PRAXIS Exam 10435 to be eligible for certification. It is recommended that Biology Teaching majors with Environmental Science complete the Natural Science Teaching minor to build their understanding of physics as defined in the "WDPI Content Guidelines for Life and Environmental Science Including Biology and Environmental Studies" and prepare for the WDPI content exam.

Thirty-five required biology credits to include:

The following required courses:

BIO 151 ESU General Biology: Cell Biology and Ecology

BIO 152 S General Biology: Genetics and Evolution

BIO 206 EV Natural Communities of Wisconsin

BIO 250 EV Environmental Biology

BIO 351 Organismal Botany

BIO 352 Organismal Zoology

BIO 401 Genetics

BIO 430 Animal Behavior

BIO 450 E Ecology

BIO 480 3 Biology Seminar

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

Course/Institution:

A minimum of 2 credits from the following:

BIO 201 Biotechnology

BIO 312 S Microbiology

BIO 402 Cell and Molecular Biology

Additional requirements:

PHYS 130 S General Physics I

OR

PHYS 201 College Physics I

A two-semester sequence in Chemistry:

CHEM 110 & 111 S Introductory Chemistry & Introductory Organic Chemistry and Biochemistry

OR

CHEM 120 & 121 S General Chemistry I & General Chemistry II

One mathematics course from among:

- MATH 114A M Precalculus A: Accelerated College Algebra
- MATH 231 M Calculus I
- MATH 232 M Calculus II
- MATH 233 M Calculus III

Seven credits of required social science courses:

- PS 351 Selected Issues in Public Policy (2-4 cr)
- PS 352 EJ Environmental Politics
- GEOG 265 E Environmental Conservation
- PHIL 110 EPU Environmental Ethics

Seven credits of required geoscience courses:

- GEOS 102 S Introduction to Earth Science I
- GEOS 206 EV Environmental Geology

One semester of the methods of teaching science and accompanying practicum:

- NATS 459S Teaching Science in Middle/ Secondary Schools

Students must be accepted into Emergent Professional Transition and have completed their science coursework before being admitted to NATS 459S.

- NATS 250 PV Philosophy of Science.

Completion of History and WDPI content exam, PRAXIS Exam 10435, with a passing score.