

BIOLOGY TEACHING WITH ENVIRONMENTAL SCIENCE MAJOR

2017-2018 Catalog (BS PROGRAM)

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.

This major is designed for individuals who wish to be certified to teach Biology and/or Environmental Science at the secondary level (WDPI category 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.

Major Requirements:

Thirty-five (35) required Biology credits to include the following core courses:

BIO 151	ESU	General Biology: Ecology, Genetics and Evolution*
		OR
BIO 181	ESU	Honors General Biology: Ecology, Genetics and Evolution*
BIO 152	S	General Biology: Cells and Molecules*
		OR
BIO 182	S	Honors General Biology: Cells and Molecules*
BIO 206	EV	Natural Communities of Wisconsin
BIO 250	EV	Introduction to Environmental Science
BIO 353		Organismal Biology*
BIO 401		Genetics*
BIO 430	S	Animal Behavior*
BIO 450	E	Ecology*
BIO 480	3K	Biology Seminar*

A minimum of 2 credits from the following:

BIO 201	V	Biotechnology
BIO 312	S	Microbiology*
BIO 402		Cell and Molecular Biology*

Additional Requirements:

PHYS 130	S	General Physics I*
		OR
PHYS 201	SU	College Physics I*

A two-semester sequence of 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 the following:

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

Seven credits of required Social Science courses:

GEOG 265	E	Environmental Conservation
PHIL 110	EPU	Environmental Ethics*
PS 351		Selected Issues in Public Policy
PS 352	EJ	Environmental Politics

Seven credits of required Geoscience courses:

ENVS 216/ GEOS 206	EV	Environmental Geology
GEOS 102	S	Introduction to Earth Science*
BIO 499		Biology Assessment (0 cr.)*

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

NATS 459		Teaching Science in Middle/Secondary Schools*
NATS 250	PV	History and Philosophy of Science*

**course has prerequisites*

Students must be fully admitted to the teacher education program and have completed their science coursework before enrolling in NATS 459.

Students will also complete the WDPI content exam, PRAXIS Exam 10435, with a passing score.