

**BROAD FIELD SCIENCE TEACHING MAJOR:  
LIFE AND ENVIRONMENTAL SCIENCE INCLUDING BIOLOGY AND  
ENVIRONMENTAL SCIENCE (BS PROGRAM)**



2017-2018 Catalog

EDGEWOOD COLLEGE

Information Sheet

*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 seeking certification to teach general science, Biology and/or Environmental Science at the Early Adolescence through Adolescence level (Ages 10-21; grades 7-12; WDPI licenses 601, 605, 606 and 615). This major requires completion of the requirements listed below, the Education Professional Requirements and the licensing requirements for teach education (see EDUCATION).

Broad Field Science Teaching majors with Life and Environmental Science Including Biology and Environmental Studies seeking Wisconsin certification will be required to pass PRAXIS Exam 10435 to be legible for certification. This major aligns with “WDPI Content Guidelines for Life and Environmental Science Including Biology and Environmental Studies.”

**Major Requirements:**

Fifty-eight required Biology credits to include the following required 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 250	EV	Introduction to Environmental Science
BIO 312	S	Microbiology*
BIO 353		Organismal Biology*
BIO 401		Genetics*
BIO 450	E	Ecology*
BIO 489		Field/Laboratory Research*
CHEM 120	S	General Chemistry I*
CHEM 121	S	General Chemistry II*
GEOS 102	S	Introduction to Earth Science*
GEOS 103	S	Oceans and Atmosphere*
NATS 250	PV	History & Philosophy of Science*
PHYS 130 & 131	S	General Physics I & General Physics II*
		OR
PHYS 201	SU	College Physics I *
		AND
PHYS 202	S	College Physics II*

At least six credits in Mathematics, including:

MATH 121	M	Statistics*
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One Mathematics course from the following:

MATH 114A	M	Precalculus A: College Algebra*
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MATH 231	M	Calculus I*
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MATH 232	M	Calculus II*
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MATH 233	M	Calculus III*
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One of the following Social Science courses:

GEOG 265	E	Environmental Conservation
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PS 351		Selected Issues in Public Policy
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PS 352	EJ	Environmental Politics
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One semester of the methods of teaching science and accompanying practicum:

NATS 459		Teaching Science in Middle/Secondary Schools*
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*\*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.