

BIOLOGY TEACHING MAJOR WITH ENVIRONMENTAL SCIENCE (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.

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:

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|--------------------------|---------|-----|--|
| <input type="checkbox"/> | BIO 151 | ESU | General Biology: Cell Biology and Ecology |
| | | | OR |
| <input type="checkbox"/> | BIO 181 | ESU | Honors General Biology: Cell Biology and Ecology |
| <input type="checkbox"/> | BIO 152 | S | General Biology: Genetics and Evolution |
| | | | OR |
| <input type="checkbox"/> | BIO 182 | S | Honors General Biology: Information Flow in Living Systems |
| <input type="checkbox"/> | BIO 206 | EV | Natural Communities of Wisconsin |
| <input type="checkbox"/> | BIO 250 | EV | Introduction to Environmental Science |
| <input type="checkbox"/> | BIO 351 | | Organismal Botany |
| <input type="checkbox"/> | BIO 352 | | Organismal Zoology |
| <input type="checkbox"/> | BIO 401 | | Genetics |
| <input type="checkbox"/> | BIO 430 | | Animal Behavior |
| <input type="checkbox"/> | BIO 450 | E | Ecology |
| <input type="checkbox"/> | BIO 480 | 3 | Biology Seminar |

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

Course/Institution:

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A minimum of 2 credits from the following:

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|--------------------------|---------|---|----------------------------|
| <input type="checkbox"/> | BIO 201 | | Biotechnology |
| <input type="checkbox"/> | BIO 312 | S | Microbiology |
| <input type="checkbox"/> | BIO 402 | | Cell and Molecular Biology |

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Additional Requirements:

A two-semester sequence in Chemistry:

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|--------------------------|----------------|---|--|
| <input type="checkbox"/> | CHEM 110 & 111 | S | Introductory Chemistry & Introductory Organic Chemistry & Biochemistry |
| | | | OR |
| <input type="checkbox"/> | CHEM 120 & 121 | S | General Chemistry I & General Chemistry II |

Choose one:

- | | | | |
|--------------------------|----------|----|-------------------|
| <input type="checkbox"/> | PHYS 130 | S | General Physics I |
| | | | OR |
| <input type="checkbox"/> | PHYS 201 | US | College Physics I |

One mathematics course from among:

- | | | | |
|--------------------------|-----------|---|------------------------|
| <input type="checkbox"/> | MATH 114A | M | Precalculus A: Algebra |
| <input type="checkbox"/> | MATH 231 | M | Calculus I |
| <input type="checkbox"/> | MATH 232 | M | Calculus II |
| <input type="checkbox"/> | MATH 233 | M | Calculus III |

Seven credits of required social science courses:

- | | | | |
|--------------------------|----------|-----|----------------------------------|
| <input type="checkbox"/> | GEOG 265 | E | Environmental Conservatism |
| <input type="checkbox"/> | PHIL 110 | EPU | Environmental Ethics |
| <input type="checkbox"/> | PS 351 | | Selected Issues in Public Policy |
| <input type="checkbox"/> | PS 352 | EJ | Environmental Politics |

Seven credits of required geoscience courses:

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|--------------------------|-----------------------|----|-------------------------------|
| <input type="checkbox"/> | GEOS 102 | S | Introduction to Earth Science |
| <input type="checkbox"/> | ENVS 216/
GEOS 206 | EV | Environmental Geology |

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

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|--------------------------|-----------|--|--|
| <input type="checkbox"/> | NATS 459S | | Teaching Science in Middle/Secondary Schools |
|--------------------------|-----------|--|--|

Students must be fully admitted to teacher education and have completed their science coursework before being admitted to NATS 459S.

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|--------------------------|----------|----|-----------------------------------|
| <input type="checkbox"/> | NATS 250 | PV | History and Philosophy of Science |
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Students will also complete the WDPI content exam, PRAXIS Exam 10435, with a passing score.