

BIOLOGY TEACHING MAJOR (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 at the secondary level (Wisconsin Department of Public Instruction [WDPI] category Early Adolescence through Adolescence, Ages 10- 21; WDPI certification 605).

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

Thirty-six required biology credits to include the following required core courses:

<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 251	IX	Introduction to Biology Research I
<input type="checkbox"/>	BIO 351		Organismal Botany
<input type="checkbox"/>	BIO 352		Organismal Zoology
<input type="checkbox"/>	BIO 401		Genetics
<input type="checkbox"/>	BIO 480	3	Biology Seminar

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

Course/Institution:

A minimum of 2 credits from the following:

<input type="checkbox"/>	BIO 206	EV	Natural Communities of Wisconsin
<input type="checkbox"/>	BIO 250	EV	Introduction to Environmental Science
<input type="checkbox"/>	BIO 430		Animal Behavior
<input type="checkbox"/>	BIO 450	E	Ecology

A minimum of 2 credits from the following:

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

Additional credits from the following:

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|--------------------------|---------|----|----------------------------------|
| <input type="checkbox"/> | BIO 201 | | Biotechnology |
| <input type="checkbox"/> | BIO 206 | EV | Natural Communities of Wisconsin |
| <input type="checkbox"/> | BIO 208 | | Nutrition |
| <input type="checkbox"/> | BIO 210 | | Anatomy and Physiology I |
| <input type="checkbox"/> | BIO 211 | | Anatomy and Physiology II |
| <input type="checkbox"/> | BIO 275 | E | Dendrology |
| <input type="checkbox"/> | BIO 292 | | Biology Excursions |
| <input type="checkbox"/> | BIO 312 | S | Microbiology |
| <input type="checkbox"/> | BIO 402 | | Cell and Molecular Biology |
| <input type="checkbox"/> | BIO 406 | | Medical Microbiology |
| <input type="checkbox"/> | BIO 408 | | Immunology |
| <input type="checkbox"/> | BIO 410 | | Pathology |
| <input type="checkbox"/> | BIO 430 | | Animal Behavior |
| <input type="checkbox"/> | BIO 445 | | Biological Psychology |
| <input type="checkbox"/> | BIO 450 | E | Ecology |
| <input type="checkbox"/> | BIO 469 | | Special Topics in Biology |
| <input type="checkbox"/> | BIO 479 | | Independent Study |
| <input type="checkbox"/> | BIO 489 | | Field/Laboratory Research |

Additional requirements:

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|--------------------------|-----------------------|----|---------------------------------------|
| <input type="checkbox"/> | PHYS 130 | S | General Physics I
OR |
| <input type="checkbox"/> | PHYS 201 | US | College Physics I |
| <input type="checkbox"/> | GEOS 102 | S | Introduction to Earth Science I
OR |
| <input type="checkbox"/> | ENVS 216/
GEOS 206 | S | Environmental Geology |

A two-semester sequence of chemistry:

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

One mathematics course from among:

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|--------------------------|-----------|---|------------------------|
| <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 |

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 |
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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.