

**BROAD FIELD SCIENCE TEACHING MAJOR: LIFE AND ENVIRONMENTAL SCIENCE INCLUDING BIOLOGY AND ENVIRONMENTAL STUDIES (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 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 teacher 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 eligible for certification.

This major aligns with "WDPI Content Guidelines for Life and Environmental Science Including Biology and Environmental Studies."

**Fifty-eight credits in natural science to include:**

- BIO 151 ESU General Biology: Cell Biology and Ecology
- BIO 152 S General Biology: Genetics and Evolution
- BIO 250 EV Environmental Biology
- BIO 312 S Microbiology
- BIO 351 Organismal Botany
- BIO 352 Organismal Zoology
- BIO 401 Genetics
- BIO 450 E Ecology
- BIO 489 Field/Laboratory Research
- CHEM 120 S General Chemistry I
- CHEM 121 S General Chemistry II
- PHYS 130 & 131 S General Physics I & General Physics II
- OR
- PHYS 201 & 202 S College Physics I & College Physics II
- GEOS 102 S Introduction to Earth Science I
- GEOS 103 S Introduction to Earth Science II
- NATS 250 PV History and Philosophy of Science

**At least six credits in mathematics:**

- MATH 121 M Statistics

**And one of the following:**

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

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

Course/Institution:

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One of the following social science courses:

PS 351 Selected Issues in Public Policy (2-4 cr)

PS 352 Environmental Politics

GEOG 265 E Environmental Conservation

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 before being admitted to NATS 459S.

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