

BROAD FIELD SCIENCE TEACHING

(BS PROGRAM)



EARTH AND SPACE SCIENCE

2017-2018 Catalog

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 general science and/or the earth and space sciences at the secondary level (WDPI category: Early Adolescence through Adolescence, ages 10-21; WDPI licenses 621 and 635). The major requires completion of the requirements listed below, the Education Professional Requirements and licensing requirements for teacher education (see EDUCATION).

Broad Field Science Teaching Majors in Earth and Space Science seeking Wisconsin certification will be required to pass PRAXIS Exam 10435 to be eligible for certification. This major aligns with "WDPI Content Guidelines for Earth and Space Science."

Major Requirements:

Fifty-two (52) credits in natural science to include:

BIO 151	ESU	General Biology: Ecology, Genetics and Evolution*
		OR
BIO 181	ESU	Honors Gen. Bio.: Ecology, Genetics and Evolution*
BIO 152	S	General Biology: Cells and Molecules*
		OR
BIO 182	S	Honors General Biology: Cells and Molecules*
CHEM 120	S	General Chemistry I*
		AND
CHEM 121	S	General Chemistry II*
ENVS 215/ GEOS 206	EV	Environmental Geology
GEOS 102	S	Introduction to Earth Science*
GEOS 103	S	Oceans and Atmosphere*
GEOS 203	S	Historical Geology*
GEOS 301	S	Weather and Climate*
NATS 250	PV	History and Philosophy of Science*
PHYS 250	V	Survey of Astronomy*

One of the following Physics sequences:

PHYS 130	S	General Physics I*
		AND
PHYS 131	S	General Physics II*
PHYS 201	SU	College Physics I*
		AND
PHYS 202	S	College Physics II*

2 credits total from the following courses:

GEOS 479		Independent Study*
GEOS 489		Undergraduate Research*

At least 6 credits in Mathematics, to include:

MATH 121	M	Statistics*
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One of the following (to be included in the six credit requirement):

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

**course has prerequisites*

One semester of methods of teaching science and accompanying practicum:

NATS 459		Teaching Science in Middle/Secondary Schools*
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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.

Policies:

A student must maintain a cumulative grade point average of at least 2.0 in all courses taken to fulfill the major requirements.

Any course in which a student receives a grade below “CD” will not be accepted toward the major.

Transfer students must take a minimum of 12 natural science credits with either a BIO, CHEM, GEOS, NATS or PHYS prefix.