

# BROAD FIELD SCIENCE TEACHING

(BS PROGRAM)

PHYSICAL SCIENCE INCLUDING PHYSICS

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 seeking certification to teach general science and physics at the Early Adolescence through Adolescence level (Ages 10-21; grades 7-12; WDPI licenses 621, 625, and 637). The 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 in Physical Science including Physics seeking Wisconsin certification will be required to pass PRAXIS Exam 10435 to be eligible for certification. This major aligns with "WDPI Content Guidelines for Physical Science Including Physics."

## Major Requirements:

Fifty-seven (57) 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*
ENVS/BIO 250	EV	Introduction to Environmental Science
		OR
ENVS 215/ GEOS 206	EV	Environmental Geology
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 and Philosophy of Science*
PHYS 201	SU	College Physics I*
PHYS 202	S	College Physics II*
PHYS 250	V	Survey of Astronomy*
PHYS 310		Principles of Mechanics*
PHYS 320		Electromagnetism*
PHYS 360	X	Relativity & Quantum Mechanics*
PHYS 361		Thermodynamics & Kinetics
PHYS 479		Independent Study*
PHYS 489		Undergraduate Research*

12 credits in Mathematics:

MATH 121	M	Statistics*
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 at Edgewood College.

All transfer courses must be approved by the department.