

# BROAD FIELD SCIENCE TEACHING

(BS PROGRAM)

PHYSICAL SCIENCE INCLUDING CHEMISTRY

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 chemistry at the Early Adolescence through Adolescence level (Ages 10-21; grades 7-12; WDPI licenses 610, 621, 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 Chemistry 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 Chemistry."

## Major Requirements:

Fifty-three (53) 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*
CHEM 121	S	General Chemistry II*
CHEM 321		Organic Chemistry I*
CHEM 323		Organic Chemistry II*
CHEM 351	U	Analytical Chemistry*
CHEM 371		Inorganic Chemistry I*
CHEM 489		Undergraduate Research*
ENVS/BIO 250	EV	Introduction to Environmental Science
		OR
ENVS 215/ GEOS 206	EV	Environmental Geology
GEOS 102	S	Introduction to Earth Science*
GEOS 103	S	Oceans and Atmosphere*
NATS 250	PV	History and Philosophy of Science*

One of the following 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*

At least 6 credits in Mathematics, to include:

MATH 121	M	Statistics*
----------	---	-------------

One of the following (to be included in the six credit requirement):

MATH 114B		Precalculus B: Trigonometry*
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*
----------	--	---

*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 at Edgewood College.

All transfer courses must be approved by the department.