

# BROAD FIELD SCIENCE TEACHING MAJOR: PHYSICAL SCIENCE INCLUDING CHEMISTRY (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 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, 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 with 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.”

## Fifty-three credits in natural science to include:

Required 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"/>	CHEM 120	S	General Chemistry I
<input type="checkbox"/>	CHEM 121	S	General Chemistry II
<input type="checkbox"/>	CHEM 321		Organic Chemistry I
<input type="checkbox"/>	CHEM 323		Organic Chemistry II
<input type="checkbox"/>	CHEM 351	U	Analytical Chemistry
<input type="checkbox"/>	CHEM 371		Inorganic Chemistry I
<input type="checkbox"/>	CHEM 489		Undergraduate Research (1 credit)
<input type="checkbox"/>	GEOS 102	S	Introduction to Earth Science I
<input type="checkbox"/>	GEOS 103	S	Oceans and Atmosphere
<input type="checkbox"/>	ENVS 216/ GEOS 206	EV	Environmental Geology
<input type="checkbox"/>	NATS 250	PV	History and Philosophy of Science

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

Course/Institution:


PLEASE NOTE THAT THIS CHECKLIST CONTAINS MAJOR REQUIREMENTS ONLY. ALL GENERAL EDUCATION REQUIREMENTS (TAGS) MUST ALSO BE COMPLETE TO EARN A B.S OR B.A DEGREE. PLEASE SEE P. 25 IN THE 2014-2015 UNDERGRADUATE CATALOG FOR THESE REQUIREMENTS. STUDENTS ARE FULLY RESPONSIBLE FOR KNOWING THEIR REQUIREMENTS FOR GRADUATION.

One of the following:

- |                          |          |    |                          |
|--------------------------|----------|----|--------------------------|
| <input type="checkbox"/> | PHYS 130 | S  | General Physics I<br>AND |
| <input type="checkbox"/> | PHYS131  | S  | General Physics II<br>OR |
| <input type="checkbox"/> | PHYS 201 | SU | College Physics I        |
| <input type="checkbox"/> | PHYS 202 | S  | College Physics II       |

At least 6 credits in mathematics:

- |                          |          |   |            |
|--------------------------|----------|---|------------|
| <input type="checkbox"/> | MATH 121 | M | Statistics |
|--------------------------|----------|---|------------|

And one of the following:

- |                          |           |   |                             |
|--------------------------|-----------|---|-----------------------------|
| <input type="checkbox"/> | MATH 114B | M | Precalculus A: Trigonometry |
| <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:

- |                          |           |   |  |
|--------------------------|-----------|---|--|
| <input type="checkbox"/> | 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.*

### **Policies:**

Transfer students must take a minimum of 12 natural science credits (i.e. CHEM, PHYS, GEOS, BIO) at Edgewood College for these majors.

Science education students must attain a cumulative GPA of 3.0 in their natural science courses.

Any natural science or mathematics course in which a student receives a grade below "CD" will not be accepted toward the major.

If a course is retaken, only the most recent grade is taken into consideration in calculating the cumulative GPA.

Please consult with your academic advisor to learn the details about how you can satisfy your COR 3 requirement.