

# BFS TEACHING: PHYSICAL SCIENCE (BS PROGRAM) INCLUDING CHEMISTRY



EDGEWOOD COLLEGE

2015-2016 Catalog

Declaration of Major

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, 637). The major requires completion of the requirements listed below, the Education Professional Requirements and the licensing requirements for teach 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:

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

Fifty three credits in natural science to include:

Course / Institution

|          |     |   |  |
|----------|-----|---|--|
| BIO 151  | ESU | General Biology: Cell Biology and Ecology*                  |  |
|          |     | OR  |  |
| BIO 181  | ESU | Honors General Biology: Cell Biology and Ecology*           |  |
| BIO 152  | S   | General Biology: Genetics and Evolution*                    |  |
|          |     | OR  |  |
| BIO 182  | S   | Honors General Biology: Information Flow in Living Systems* |  |
| CHEM 120 | S   | General Chemistry I*  |  |
|          |     | AND   |  |
| 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<br>250       | EV | Introduction to Environmental Science |
| OR                    |    |                                       |
| ENVS 215/<br>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 six 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 at Edgewood College.

All transfer courses must be approved by the department.

Students should consult with their academic advisor to learn the details of how they can satisfy the COR 3 requirement.