

BROAD FIELD SCIENCE TEACHING MAJOR: PHYSICAL SCIENCE INCLUDING PHYSICS (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/ or physics at the Early Adolescence through Adolescence level (Ages 10-21; grades 7-12; WDPI licenses 621, 637, and 625). 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 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.”

Fifty-six credits in natural science to include:

Required courses:

- CHEM 120 S General Chemistry I
- CHEM 121 S General Chemistry II
- GEOS 102 S Introduction to Earth Science I
- GEOS 103 S Oceans and Atmospheres
- 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
- BIO 250 EV Environmental Biology
OR
- ENV 216/ GEOS 206 EV Environmental Geology
- NATS 250 PV History and Philosophy of Science
- PHYS 201 US 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 Modern Physics
- PHYS 361 Thermal Physics
- PHYS 479 Independent Study (1 credit)
- PHYS 489 Undergraduate Research (1 credit)

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

Course/Institution:

Twelve credits in mathematics:

- MATH 231 M Calculus I
- MATH 232 M Calculus II
- MATH 233 M Calculus III
- MATH 121 M Statistics (recommended)

One semester of the methods of teaching science and accompanying practicum:

- 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.