BIOLOGY TEACHING MAJOR WITH ENVIRONMENTAL SCIENCE (BS PROGRAM)

2015-2016 Catalog

Declaration of Major

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 who wish to be certified to teach Biology and/or Environmental Science at the secondary level (WDPI category Adolescence through Adolescence, Ages 10-21; WDPI license 605 and 615). This major requires completion of the requirements listed below; the Education Professional Requirements and the licensing requirements for teacher education (see EDUCATION).

Biology Teaching Majors with Environmental Science seeking Wisconsin certification will be required to pass PRAXIS Exam 10435 to be eligible for certification. It is recommended that Biology Teaching majors with Environmental Science complete the Natural 88 BIOLOGICAL SCIENCES
Science Teaching Minor to build their understanding of Physics as defined in the "WDPI Content Guidelines for Life and Environmental Science including Biology and Environmental Studies" and prepare for the WDPI content exam.

Major Requirements:

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

Thirty-five (35) required Biology credits to include the following core courses:			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*	
BIO 206	EV	Natural Communities of Wisconsin	
BIO 250	EV	Introduction to Environmental Science	
BIO 351		Organismal Botany*	
BIO 352		Organismal Zoology*	
BIO 401		Genetics*	
BIO 430	S	Animal Behavior*	
BIO 450	E	Ecology*	
BIO 480	3K	Biology Seminar*	

A minimum of 2 credits from the following:

BIO 201	V	Biotechnology	
BIO 312	S	Microbiology*	
BIO 402		Cell and Molecular Biology*	

Additional Requirements:

PHYS 130	S	General Physics I*	
		OR	
PHYS 201	SU	College Physics II*	

A two semester sequence of Chemistry:

CHEM 110 & 111	S	Introductory Chemistry & Introductory Organic Chemistry and Biochemistry*	
CHEM 120 & 121	S	General Chemistry I & General Chemistry II*	

One Mathematics course from the following:

MATH 114A	M	Precalculus A: College Algebra*	
MATH 231	M	Calculus I*	
MATH 232	M	Calculus II*	
MATH 233	M	Calculus III*	

7 credits of required Social Science courses:

GEOG 265	E	Environmental Conservation	
PHIL 110	EPU	Environmental Ethics*	
PS 351		Selected Issues in Public Policy	
PS 352	EJ	Environmental Politics	

7 credits of required Geoscience courses:

ENVS 216/ GEOS 206	EV	Environmental Geology	
GEOS 102	S	Introduction to Earth Science*	
BIO 499		Biology Assessment*	

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

NATS 459		Teaching Science in Middle/Secondary Schools*	
NATS 250	PV	History and Philosophy of Science*	

**course has prerequisites*

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.