

BIOLOGY MAJOR

(BS PROGRAM)



EDGEWOOD COLLEGE

2016-2017 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

Requirements for the Biology major include 38 credits in Biology, 8 credits in Chemistry, a Mathematics course, and the completion of an independent research project.

Major Requirements:

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

Biology Core Courses (19 credits):

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 351		Organismal Botany*	
BIO 352		Organismal Zoology*	
BIO 401		Genetics*	

Required Three Semester Research Sequence (6 Credits):

BIO 251	IX	Introduction to Biology Research I*	
BIO 252		Introduction to BIO Research II*	
		OR	
BIO 480		Field/Laboratory Research*	
BIO 489	3K	Biology Seminar*	

Biology Electives (14 Credits):

Biology majors must take at least 14 credits of electives. This must include one course from each of the following three areas of emphasis; the remainder of the 14 credits may be satisfied with any elective course. In addition, at least one of the elective selections must be a 400 level course. "Special Topics" courses are occasionally offered (BIO 269, 369, 469); these may be considered by the department as fulfilling the requirement for one area of emphasis, and all 3-4 credits BIO 469 courses fulfill the 400-level requirement.

One of the following Cell and Molecular Biology Courses:

BIO 201	V	Biotechnology	
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		AND current enrollment in	
BIO 203	V	Molecular Biotechnology	
BIO 312	S	Microbiology*	
BIO 402		Cell and Molecular Biology*	
BIO 406		Medical Microbiology*	
BIO 408		Immunology*	

One of the following Ecology and Evolutions Courses:

BIO 206	EV	Natural Communities of Wisconsin	
BIO 250	EV	Introduction to Environmental Science	
BIO 275	E	Dendrology: Trees and Shrubs of Wisconsin	
BIO 333	E	Ecological History of Civilization*	
BIO 430	S	Animal Behavior*	
BIO 450	E	Ecology*	

One of the following Organismal Biology:

BIO 208		Nutrition	
BIO 210		Anatomy and Physiology I*	
BIO 211		Anatomy and Physiology II*	
BIO 220	V	Introduction to Human Biomechanics*	
BIO 410	K	Pathology	
		OR	
BIO 412	K	Pathophysiology	
BIO 415		Exercise Physiology*	
BIO 425		Animal Physiology*	

Other Elective Courses:

BIO 269		Special Topics in Biology	
BIO 292		Biology Excursions*	
BIO 369		Special Topics in Biology*	
BIO 445	V	Bio-Psychology	
BIO 479		Independent Study in Biology*	
BIO 489		Field/Laboratory Research*	

One of the following Chemistry sequences:

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

One of the following Mathematics courses:

MATH 114A	M	Precalculus A: College Algebra*	
MATH 114B		Precalculus B: Trigonometry*	
MATH 231	M	Calculus I*	

*course has prerequisites

Policies:

Completion of the major includes participation in independent research. Each student will present his or her research project in Biology Seminar (BIO 480). Biology majors should consult with their advisors about this requirement at the time that the major is declared.

Students majoring in Biology should seek assistance in planning their program of study with an advisor in the department. Transfer students must take a minimum of 12 biology credits at Edgewood College for a major. Students with specific goals for careers or post-graduate study may be advised to take some courses at the University of Wisconsin-Madison through Edgewood College's Collaborative Program.

A student must maintain a cumulative grade point average of 2.5 or higher in ALL Biology courses used to fulfill the major requirements (courses listed on Degree Audit). Only Biology, Chemistry or Math courses in which the student receives a grade of CD or better will be accepted toward the major or the minor.