

# BIOLOGY MAJOR (BS PROGRAM)

Declaration of Major | 2013-2014 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.

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

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

Biology core courses (24 credits):

Course/Institution:

- |                          |         |     |   |
|--------------------------|---------|-----|---|
| <input type="checkbox"/> | BIO 151 | ESU | General Biology: Cell Biology and Ecology<br>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<br>OR                 |
| <input type="checkbox"/> | BIO 182 | S   | Honors General Biology: Information Flow in Living<br>Systems |
| <input type="checkbox"/> | BIO 251 | IX  | Introduction to Biology Research I                            |
| <input type="checkbox"/> | BIO 351 |     | Organismal Botany   |
| <input type="checkbox"/> | BIO 352 |     | Organismal Zoology  |
| <input type="checkbox"/> | BIO 401 |     | Genetics  |
| <input type="checkbox"/> | BIO 480 | 3   | Biology Seminar   |

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A minimum of 14 credits of elective biology courses to include at least one course in each of the following areas of emphasis: Cell and Molecular Biology, Ecology and Evolution, and Organismal Biology (see list below). At least one of these courses 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; all 3-4 credit BIO 469 courses fulfill the 400-level requirement. The remainder of the 14 credits may be satisfied with any elective biology course:

## Cell and Molecular Biology

Select at least one:

- |                          |         |   |                            |
|--------------------------|---------|---|----------------------------|
| <input type="checkbox"/> | BIO 201 |   | Biotechnology              |
| <input type="checkbox"/> | BIO 312 | S | Microbiology               |
| <input type="checkbox"/> | BIO 402 |   | Cell and Molecular Biology |
| <input type="checkbox"/> | BIO 406 |   | Medical Microbiology       |
| <input type="checkbox"/> | BIO 408 |   | Immunology                 |

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## Ecology and Evolution

Select at least one:

- |                          |         |    |                                  |
|--------------------------|---------|----|----------------------------------|
| <input type="checkbox"/> | BIO 206 | EV | Natural Communities of Wisconsin |
| <input type="checkbox"/> | BIO 250 | EV | Environmental Biology            |

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<input type="checkbox"/>	BIO 275		Dendrology	
<input type="checkbox"/>	BIO 333	E	Ecological History of Civilization	
<input type="checkbox"/>	BIO 430	S	Animal Behavior	
<input type="checkbox"/>	BIO 450	E	Ecology	

**Organismal Biology**

Select at least one:

<input type="checkbox"/>	BIO 208		Nutrition	
<input type="checkbox"/>	BIO 210		Anatomy and Physiology I	
<input type="checkbox"/>	BIO 211		Anatomy and Physiology II	
<input type="checkbox"/>	BIO 220	V	Biomechanics	
<input type="checkbox"/>	BIO 410		Pathology	
<input type="checkbox"/>	BIO 415		Exercise Physiology	
<input type="checkbox"/>	BIO 425		Comparative Animal Physiology	

Other elective courses:

<input type="checkbox"/>	BIO 252		Intro to Bio Research II	
<input type="checkbox"/>	BIO 269		Special Topics in Biology	
<input type="checkbox"/>	BIO 292		Biology Excursions	
<input type="checkbox"/>	BIO 369		Special Topics in Biology	
<input type="checkbox"/>	BIO 445		Biological Psychology	
<input type="checkbox"/>	BIO 469		Special Topics in Biology	
<input type="checkbox"/>	BIO 479		Independent Study	
<input type="checkbox"/>	BIO 489		Field/Laboratory Research	

One of the following chemistry sequences:

<input type="checkbox"/>	CHEM 110 & 111	S	Introductory Chemistry Introductory Organic Chemistry and Biochemistry	
<input type="checkbox"/>	CHEM 120 & 121	S	General Chemistry I & General Chemistry II	

One mathematics course from:

<input type="checkbox"/>	MATH 114A	M	Precalculus A: Algebra,	
<input type="checkbox"/>	MATH 114B		Precalculus B: Accelerated Trigonometry	
<input type="checkbox"/>	MATH 231	M	Calculus I (not required)	

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.

**Policies for the Biology Major and Minor:**

Students majoring or minoring 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 and a minimum of 8 biology credits for a minor. 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 in biology courses. A biology course in which the student receives a grade below “CD” will not be accepted toward the major or the minor.