

ECOLOGY, EVOLUTION AND ENVIRONMENTAL BIOLOGY

(for students entering Biology in Fall 2012 or later – revised July 2013)

Graduation Requirements:

- A minimum 2.0 average in all biology courses required for this major
- A minimum of 32 credits at or above the 300-level completed at a Purdue campus
- At least one 500-level Biology course other than BIOL 54200
- 120 Total Credits

BIOLOGY:

1. BIOL 12100 Biology I: Diversity, Ecology and Behavior (2 cr.; fall) **or**
BIOL 19500 Biodiversity, Ecology & Evolution (3 cr.; fall)
2. BIOL 13100 Biology II: Development, Structure, and Function of Organisms (3 cr.; spring) **or**
BIOL 19500 Organismal Development & Physiology (3 cr.; spring)
3. BIOL 13500 1st Year Biology Lab (2 cr.; both) **or**
BIOL 14501 1st Year Biology Lab w/Neuro Research Project (2 cr.; fall) **or**
BIOL 14502 1st Year Biology Lab w/Micro Research Project (2 cr.; spring) **or**
IT 22600 Biotechnology Lab (2 cr.; fall)
4. BIOL 23100 Biology III: Cell Structure and Function (3 cr.; fall)
5. BIOL 23200 Laboratory in Biology III: Cell Structure and Function (2 cr.; fall)
6. BIOL 24100 Biology IV: Genetics and Molecular Biology (3 cr.; spring)
7. BIOL 24200 Laboratory in Genetics and Molecular Biology (2 cr.; spring)
8. BIOL 28600 Intro. to Ecology & Evolution (2 cr.; spring)
9. **Intermediate Requirement: Choose one of these eight options:**
 - A. BIOL 32800 Principles of Physiology (4 cr.; spring)
 - B. BIOL 36600 Principles of Development (3 cr.; spring)
 - C. BIOL 39500 Macromolecules (3 cr.; fall)
 - D. BIOL 41500 Intro. to Molecular Biology (3 cr.; fall)
 - E. BIOL 41600 Viruses & Viral Diseases (3 cr.; spring)
 - F. BIOL 42000 Eukaryotic Cell Biology (3 cr.; fall)
 - G. BIOL 43600 Neurobiology (3 cr.; fall)
 - H. BIOL 43800¹ General Microbiology (3 cr.; fall)
10. BIOL 58000 Evolution (3 cr.; fall)
11. BIOL 58500 Ecology (3 cr.; spring)
12. **One of these two options:**
 - A. Research² (BIOL 49400 or 49900; (1 cr.; both))
 - B. BIOL 59100³ Field Ecology (4 cr.; alternate fall)
13. **One of these six courses:**
 - A. BIOL 59100³ Field Ecology (4 cr.; alternate fall)
 - B. BIOL 59200 Evolution of Behavior (3 cr.; spring)
 - C. BIOL 58705 Animal Communication (3 cr.; alternate fall)
 - D. BIOL 59500 Ecological Statistics (3 cr.; fall)
 - E. BIOL 59500 Sensory Ecology (3 cr.; alternate spring)
 - F. BIOL 59700 Sex and Evolution (3 cr.; alternate fall)
14. **Biology Electives: One course (not being used for #13 above) from the following:**

BIOL 43800 ¹ General Microbiology (3 cr.; fall)	ANTH 53500 Foundations of Biological Anthropology (3 cr.; fall)
BIOL 43900 Microbiology Lab (2 cr.; fall)	ANTH 53600 Primate Ecology (3 cr.; spring)
BIOL 44400 Human Genetics (3 cr.; fall)	BCHM 56100 ⁴ General Biochemistry (3 cr.; fall)
BIOL 48300 Environmental & Conservation Biology (3 cr.; spring)	CE 35000 Environmental Engineering (3 cr.; both)
BIOL 58705 Animal Communication (3 cr.; alternate fall)	CE 35200 Biological Principles of Environmental Engineering (3 cr.; both)
BIOL 59100 ³ Field Ecology (4 cr.; alternate fall)	ENTM 50000 Fundamentals of Entomology (3 cr.; fall)
BIOL 59200 Evolution of Behavior (3 cr.; spring)	FNR 48800 Global Environmental Issues (3 cr.; fall)
BIOL 59500 Ecological Statistics	FNR 44700 Vertebrate Population Dynamics (3 cr.; fall)
BIOL 59500 Sensory Ecology	FNR 58100 Ecological Impact Analysis (3 cr.; fall)
AGEC 52500 Environmental Policy Analysis (3 cr.; spring)	POL 52300 Environmental Politics and Public Policy (3 cr.; fall)

Other courses may be considered for this elective requirement (#14). See your advisor for more information.

¹ BIOL 43800 may be used for requirement #9 or for requirement #14, but not both.

² Research must be in the lab of a Biology Department Ecology faculty member, or have the approval of a Biology Department Ecology faculty member.

³ BIOL 59100 may be used for #12, #13, or #14. It may be used for #12 and #13, or #12 and #14. It may not be used for #13 and #14.

⁴ BCHM 56100 and CHM 53300 may count as a chemistry elective or as a biology elective, but not both.

Other requirements are on the back of this page.