**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 43800** 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. Research  
       *(BIOL 49400 or 49900; 1 cr.; both)*  
    B. **BIOL 59100** Field Ecology (4 cr.; alternate fall)

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

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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.**