Graduation Requirements:
- A minimum 2.0 average in all biology courses required for this major
- A minimum of 32 credits at or above the 30000-level completed at a Purdue campus
- At least one 50000-level Biology course other than BIOL 50000 or 54200
- 124 Total Credits

Biology:
1. BIOL 12100 Biology I: Diversity, Ecology and Behavior (2 cr.; fall)
2. BIOL 13100 Biology II: Development, Structure, and Function of Organisms (3 cr.; spring)
3. BIOL 13500 First Year Biology Lab (2 cr.; both)
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 Introduction to Ecology (2 cr.; spring)
9. One of these four options:
   A. BIOL 39500 Macromolecules (3 cr.; fall)
   B. BIOL 39500 Principles of Development (4 cr.; spring)
   C. BIOL 39500 Principles of Physiology (4 cr.; spring)
   D. BIOL 43800 General Microbiology (3 cr.; fall) and BIOL 43900 Microbiology Lab (2 cr.; fall)
10. BIOL 58000 Evolution (3 cr.; spring)
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 three courses:
   A. BIOL 59200 Evolution of Behavior (3 cr.; spring)
   B. BIOL 59500 Animal Communication (3 cr.; alternate fall)
   C. BIOL 59700 Sex and Evolution (3 cr.; alternate fall)
14. Seven credits of 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.; fall)
    BIOL 49300 Intro. to Ethology (3 cr.; fall)
    BIOL 59100 Field Ecology (4 cr.; alternate fall)
    BIOL 59200 Evolution of Behavior (3 cr.; spring)
    BIOL 59500 Animal Communication (3 cr.; alternate fall)
    BIOL 59700 Sex and Evolution (3 cr.; alternate fall)
    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.; both)
    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 50100 Limnology (3 cr.; fall)
    FNR 54200 Ecology and Management of Declining, Rare, and Endangered Species (2 cr.; alternate spring)
    FNR 54700 Vertebrate Population Dynamics (3 cr.; fall)
    FNR 58100 Ecological Impact Analysis (3 cr.; fall)
    POL 52300 Environmental Politics and Public Policy (3 cr.; fall)
    SOC 53300 Environmental Sociology (3 cr.; spring)

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. 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.
CHEMISTRY
1. CHM 11500 General Chemistry (4 cr.; both)
2. CHM 11600 General Chemistry (4 cr.; both)

3. One of these three options:
   1. CHM 25500 Organic Chemistry (3 cr.; both) and CHM 25501 Organic Chemistry Lab (1 cr.; both) and
      CHM 25600 Organic Chemistry (3 cr.; both) and CHM 25601 Organic Chemistry Lab (1 cr.; both)
   2. CHM 26505 Organic Chemistry (3 cr.; fall) and CHM 26300 Organic Chemistry Lab (1 cr.; fall) and
      CHM 26605 Organic Chemistry (3 cr.; spring) and CHM 26400 Organic Chemistry Lab (1 cr.; spring)
   3. CHM 25700 Organic Chemistry (4 cr.; both) and CHM 25701 Organic Chemistry Lab (1 cr.; both) and one of:
      CHM 33300 Principles of Biochemistry (3 cr.; both) or BCHM 30700 Biochemistry (3 cr.; both)

4. One of these seven options:
   A. BCHM 22100 Analytical Biochemistry (3 cr.; both)
   B. CHM 22400 Introductory Quantitative Analysis (4 cr.; spring)
   C. CHM 32100 Analytical Chemistry I (4 cr.; fall)
   D. BCHM 56100 General Biochemistry I (3 cr.; both)
   E. CHM 53300 Introductory Biochemistry (3 cr.; fall)
   F. CHM 37200 Physical Chemistry (4 cr.; spring)
   G. CHM 37300 Physical Chemistry (3 cr.; fall)

PHYSICS
One of these two options:
1. PHYS 22000 General Physics (4 cr.; both) and PHYS 22100 General Physics (4 cr.; both)
2. PHYS 17200 Modern Mechanics (4 cr.; both) and one of the following two choices:
   A. PHYS 27200 Electric and Magnetic Interactions (4 cr.; both)
   B. PHYS 24100 Electricity and Optics (3 cr.; both) and PHYS 24200 Intro to Heat and Thermal Physics (1 cr.; spring) and PHYS 25200 Electricity and Optics Laboratory (1 cr.; spring)

COLLEGE OF SCIENCE CORE REQUIREMENTS
Composition and Presentation; Teambuilding and Collaboration; Language and Culture; Great Issues; General Education; Multidisciplinary Experience; Mathematics; Statistics; Computing (see handout).

FREE ELECTIVES
Approximately 0 - 23 credits