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
- 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) or BIOL 19500 CASPIE Laboratory  (2cr.;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  Intro. to Ecology and Evolution  (2 cr.; spring) or BIOL 29500, Intro. to Evolution & Ecology  (2 cr.; fall)
9. Intermediate Requirement: Choose one of these four options:
   A. BIOL 32800  Principles of Physiology  (4 cr.; spring)
   B. BIOL 36600  Principles of Development  (4 cr.; spring)
   C. BIOL 39500  Macromolecules  (3 cr.; fall)
   D. BIOL 43800¹  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.; fall)
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: Two courses (not being used for #13 above) from the following:
   BIOL 43800¹  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 49300  Intro. to Ethology  (3 cr.; fall)
   BIOL 58705  Animal Communication  (3 cr.; alternate fall)
   BIOL 59100³  Field Ecology  (4 cr.; alternate fall)
   BIOL 59200  Evolution of Behavior  (3 cr.; spring)
   BIOL 59500  Ecological Statistics
   BIOL 59500  Sensory Ecology
   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 56100⁴  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 50100  Limnology  (3 cr.; fall)
   FNR 50500  Molecular Ecology & Evolution  (3 cr.; alternate spring)
   FNR 54200  Ecology and Management of Declining, Rare, and Endangered Species  (2 cr.; alternate spring)
   FNR 58100  Ecological Impact Analysis  (3 cr.; fall)
   FNR 58700  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.

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.
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.; fall)
   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) or
   B. PHYS 24100 Electricity and Optics (3 cr.; both) 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

EEEB 8/11