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 and Evolution (2 cr.; spring)
9. Intermediate Requirement: Choose one of these four options:
   (Cell, Molecular, and Developmental Biology majors must take BIOL 36600, 41500 or 42000 for this requirement.)
   A. BIOL 32800 Principles of Physiology (4 cr.; spring) or
   E. BIOL 41600 Viruses and Viral Diseases (3 cr.; spring)
   B. BIOL 36600 Principles of Development (3 cr.; spr.) or
   F. BIOL 42000 1 Eukaryotic Cell Biology (3 cr.; fall)
   C. BIOL 39500 Macromolecules (3 cr.; fall) or
   G. BIOL 43600 Neurobiology (3 cr.; fall)
   D. BIOL 41500 1 Intro. To Molecular Biology (3 cr.; fall)
      H. BIOL 43800 General Microbiology (3 cr.; fall)
10. Two of these four courses: (may not overlap with #9 above)
    A. BIOL 36600, Principles of Development (3 cr.; spr.) or
    C. BIOL 42000 1 Eukaryotic Cell Biology (3 cr.; fall)
    B. BIOL 41500 1 Intro. to Molecular Biology (3 cr.; fall) or
    D. BIOL 48100 1 Eukaryotic Genetics (3 cr.; fall)
11. One of these three courses:
    A. CHM 49000 Biochemistry for Life Sciences (3 cr.; fall) or
    B. BCHM 56100 General Biochemistry I (3 cr.; fall) or
    C. CHM 53300 Introductory Biochemistry (3 cr.; fall)
12. BIOL 44201 1 Introductory Module: Protein Expression plus two additional modules of BIOL 442xx 2 (1-2 cr.; both) (various titles) or
    BIOL 54200 1 (1 cr.; both) Neurophysiology (1 cr.; fall)
13. One of these two courses:
    A. BIOL 51600 Molecular Biology of Cancer (3 cr.; spr)
    B. BIOL 59500 Cellular Biology of Plants (3 cr.; fall)
14. Biology Electives: Three credits of the following:
    BIOL 39500 Macromolecules (3 cr.; fall) or
    BIOL 41500 2 Intro. to Molecular Biology (3 cr.; fall) or
    BIOL 41600 Viruses and Viral Diseases (3 cr.; spring)
    BIOL 42000 2 Eukaryotic Cell Biology (3 cr.; fall)
    BIOL 43200 Reproductive Physiology (3 cr.; alternate fall)
    BIOL 43600 Neurobiology (3 cr.; fall)
    BIOL 43800 General Microbiology (3 cr.; fall)
    BIOL 43900 Microbiology Lab (2 cr.; fall)
    BIOL 44400 Human Genetics (3 cr.; fall)
    BIOL 44600 Molecular Biology of Pathogens (3 cr.; spring)
    BIOL 47800 Intro to Bioinformatics (3 cr.; fall)
    BIOL 48100 2 Eukaryotic Genetics (3 cr.; spring)
    BIOL 48300 Environmental & Conservation Biology (3 cr.; spring)
    BIOL 49500 Biological & Structural Aspects of Drug Design & Action (3 cr.; spring)
    BIOL 51100 Intro. to X-Ray Crystallography (3 cr.; spring)
    BIOL 51600 Molecular Biology of Cancer (3 cr.; spring)
    BIOL 51700 Molecular Biology: Proteins (2 cr.; spring)
    BIOL 52900 Bacterial Physiology (3 cr.; spring)
    BIOL 53300 Medical Microbiology (3 cr.; fall)
    BIOL 53700 Immunology (3 cr.; spring)
    BCHM 56200 General Biochemistry II (3 cr.; spring)

1 Three credits of undergraduate research, approved by the Undergraduate Studies Committee, may be used to replace some or all of the lab modules.
2 Courses used to meet requirements 9 or 10 above cannot be used to meet requirement 14.

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:
   a. 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)
   b. 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)
   c. 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)

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 - 15 credits  

CMDB 8/13