Bachelor of Science in Biology  
PHYSIOLOGY CONCENTRATION

**Lower-Division Core in Biology**  
- BIOL 130 (Introductory Cell Biology and Genetics, 4 units)  
- BIOL 131 (Diversity and Ecology, 4 units)

**Physical Sciences & Mathematics**  
- CHEM 115A & 115B (General Chemistry, 10 units)  
- CHEM 335A & 335B (Organic Chemistry, 6 units)  
- MATH 165 (Elementary Applied Statistics, 4 units)  
- MATH 161 (Differential and Integral Calculus, 4 units)  
- PHYS 210A & 210B (General Physics Lecture, 6 units)  
- PHYS 209A (General Physics Lab, 1 unit)

**Upper-Division Core in Biology**  
- BIOL 320 (Evolution and Ecology, an Integrated Approach, 4 units)  
- BIOL 321 (Molecular Biology, Cell Biology and Physiology, 4 units)

**Organismal/Diversity Requirement**  
(complete ONE of the following)  
- BIOL 322 (Invertebrate Biology, 4 units)  
- BIOL 323 (Entomology, 4 units)  
- BIOL 327 (Vertebrate Biology, 4 units)  
- BIOL 329 (Plant Biology, 4 units)  
- BIOL 340 (General Bacteriology, 4 units)

**Upper-Division Requirements**  
(complete ONE of the following)  
- BIOL 347 (Environmental Physiology, 4 units)  
- BIOL 348 (Plant Physiology, 4 units)  
- BIOL 349 (Animal Physiology, 4 units)  

(AND complete ONE of the following)  
- BIOL 341 (Evolution, 4 units)  
- BIOL 342 (Molecular Genetics, 4 units)  
- BIOL 344 (Cell Biology, 4 units)  
- BIOL 472 (Developmental Biology, 4 units)  
- BIOL 480 (Immunology, 4 units)

**Major Electives for Concentration**  
Choose in consultation with your advisor  

**Research Experience:** (choose one of the following)  
- **Research Experience in Biology**  
  - BIOL 490 (3 units)  
- **Honors Thesis** (enrollment by application only)  
  - BIOL 496A  Honors Thesis I – Research Design (1-2 units)  
  AND  
  - BIOL 496B  Honors Thesis II (2-3 units)  
- **Independent Research**  
  - BIOL 494 (1-3 units)

**Total Units in Degree**  
78

GE (12 units in major)  
38

Electives  
4

**Total Units in Degree**  
120

Recommended Advisors (in alphabetical order): Dan Crocker, Nick Geist, Murali Pillai, Sean Place, Mackenzie Zippay.

Updated: 08/22/17