Sonoma State University Offers Seven Options Leading to a Bachelor Degree in Biology

Required for All Biology Majors
Common lower division core
- Intro Cell Bio and Genetics: Biol 130
- Biological Diversity and Ecology: Biol 131
- General Chemistry: Chem 115A & 115B
- Organic Chemistry: Chem 335A
21 units

Common upper division core
- Integrative Ecology and Evolution: Biol 320
- Molecular, Cell Biology, and Physiology: Biol 321
- Complete ONE course in Organismal/Diversity
  (List of courses to the right)
12 units

Bachelor of Arts
- Elementary Applied Statistics: Math 165
  OR
  Calculus I: Math 161
- Physics Lecture and Lab: Phys 210A & 209A
  OR
  Geology: Geol 102
7-8 units

Bachelor of Science
- Elementary Applied Statistics: Math 165
  OR
  Calculus I: Math 161
- Organic Chemistry: Chem 335B
- Physics: Phys 210A & 210B
- Physics Lab: Phys 209A
18 units

Biology
- Zoology Concentration
  - 20 units of upper division biology elective courses in consultation with your advisor

Biological Diversity and Ecology
- One course representing invertebrate biology and one course representing vertebrate biology (8 units)
- 12 units of select upper division biology elective courses in consultation with your advisor

Research Experience
- 3 units of research experience

Marine Biology
- Marine Biology (Biol 332)
- 21 units of select upper division biology elective courses in consultation with your advisor

Research Experience
- 3 units of research experience

Ecology and Evolutionary Biology
- Ecology (Biol 333)
- Evolution (Biol 341)
- 16 units of select upper division biology elective courses in consultation with your advisor

Research Experience
- 3 units of research experience

Physiology
- Take ONE of the following:
  - Env. Phys (Biol 347)
  - Plant Phys (Biol 348)
  - Anim. Phys (Biol 349)
- 20 units of select upper division biology elective courses in consultation with your advisor

Research Experience
- 3 units of research experience

Organismal/Diversity Courses
- Invertebrate Biology: Biol 322
- Entomology: Biol 323
- Vertebrate Biology: Biol 327
- Plant Biology: Biol 329
- General Bacteriology: Biol 340

This handout does not include general education requirements
Biology (Biol) courses greater than 321 are upper division majors courses (except for Biol 398) that can be used as electives
Research experience can be in the form of Biol 490, 494 or 496A&B

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Denotes additional physical sciences units in the MCB concentration