Natural Sciences and Engineering

The Division of Natural Sciences and Engineering, in the College of Arts and Sciences, offers the Bachelor of Science degree in biology and chemistry and engineering technology management. Minors are also offered in biology and chemistry. Courses are offered in the areas of engineering, geology, physical science, physics and astronomy. Students interested in the following professional programs typically pursue coursework under this division: chiropractic, dental, engineering, medical, optometry, occupational therapy, pharmacy, physician assisting, physical therapy, speech pathology, and veterinary medicine.

Bachelor of Science
Major in Biology
Student Worksheet

General Education Courses

I. Communication
   ______ SEGL 101 and SEGL 102
   ______ SSPH 201

II. Mathematics
    ______ SMTH 126
    ______ SMTH 127

III. Information Technology
     ______ SCSC 138, 150; SIMS 101

IV. Natural Science
    ______ SCHM 111/L
    ______ SCHM 112/L

V. Arts and Humanities
   One fine arts course:
      ______ SAAS 204; SATH 101, 105, 106;
      ______ SMUS 110, 140; STHE 161, 170

   One course from the following:
   (no more than 3 credit hours from a specific discipline)
      ______ SAAS 204; SAMS 101, 102; SATH 101, 105, 106;
      ______ SEGL 250, 252, 275, 279, 280, 283, 289, 290, 291; SFLM 240;
      ______ SMUS 110, 140; SPHI 102, 211;
      ______ SREL 103; STHE 161, 170

VI. Foreign Language and Culture
    Foreign Language minimum 102 level
     ______ SCHI 102; SFRN 102; SGRM 102;
     ______ SSPN 102
     Placement in a 201 or higher level language course (Students placing into a 201 level of a language have satisfied this requirement but will have additional hours in electives, if hours are required in the major).

VII. History
     ______ SHST 101, 102, 105, or 106

VIII. Social and Behavioral Sciences
     Two courses from the following with two disciplines represented:
     ______ SANT 102; SAAS 201; SECO 221,
     ______ 222; SREG 101; SGIS 101, 200
     ______ 320; SPSY 101; SSOC 101; SWST 101

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The successful completion of Mathematics 127 with a minimum grade of C fulfills Group II requirements. The additional three hours are made up as electives.

College of Arts and Sciences
2011-2012 USC Upstate Catalog
### Major Requirements

- Biology 101, 102 8
- Biology 301, 302 8
- Biology 350 4
  - One Field Course selected from: 4
    - SBIO 305, 380, 525, 570

Biology (four courses at the 300/500 level excluding Biology 399). At least three of the four courses must have an associated lab.

Biology 599: Senior Seminar 3

### Supporting Courses

- Chemistry 331 + 331L 4
- Chemistry 332 + 332L 4
- Statistics (Mathematics 102 or Psychology 225) 3

### Biology majors may select a cognate (12 hours)

OR a minor (18-24 hours)

#### Cognate

(with approval of advisor)

- Physics 201 + 202 recommended 8
- Other 4

#### OR

#### Minor

(with approval of advisor)

#### Electives

0-11

### Total Hours Required

120-122

### Minor in Biology

#### Student Worksheet

### Required Courses

- SBIO 101 + SBIO 101L 4
- SBIO 102 + SBIO 102L 4
- SBIO 301 + SBIO 301L 4
- SBIO 302 + SBIO 302L 4
- 500-level Biology + lab 4

Total hours required 20

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1. A minimum grade of C is required.
2. A biology course used to meet biology major requirements may not be taken more than twice.
3. To receive a biology degree, students must complete at least 15 hours of major course credit at USC Upstate.
4. A minimum of two 500-level courses (excluding 599) must be completed. A maximum of 4 hours from SBIO 581, 583L or 582 may be counted as major credit. A total of 11 courses in the major are required.
5. A cognate is required for all students not fulfilling requirements for a minor that has been approved by their advisor.
6. Up to 6 hours (8 hours if lab courses) of General Education (less than 300-level) may be used to satisfy requirements of a minor.
7. A minimum grade of C is required for all coursework.