

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

<p>I. Communication 9</p> <p>_____ SEGL 101 and SEGL 102</p> <p>_____ SSPH 201</p> <p>II. Mathematics¹ 6</p> <p>_____ SMTH 126</p> <p>_____ SMTH 127</p> <p>III. Information Technology 3</p> <p>_____ SCSC 138, 150; SIMS 101</p> <p>IV. Natural Science 8</p> <p>_____ SCHM 111/L</p> <p>_____ SCHM 112/L</p> <p>V. Arts and Humanities 6</p> <p><i>One fine arts course:</i></p> <p>_____ SAAS 204; SATH 101, 105, 106; SMUS 110, 140; STHE 161, 170</p> <p><i>One course from the following: (no more than 3 credit hours from a specific discipline)</i></p> <p>_____ SAAS 204; SAMS 101, 102; SATH 101, 105, 106; SEGL 250, 252, 275, 279, 280, 283, 289, 290, 291; SFLM 240; SMUS 110, 140; SPHL 102, 211; SREL 103; STHE 161, 170</p>	<p>VI. Foreign Language and Culture 3</p> <p><i>Foreign Language minimum 102 level</i></p> <p>_____ SCHI 102; SFRN 102; SGRM 102; SSPN 102</p> <p>Placement in a 201 or higher level language course (Students placing into 201 or higher level of a language have satisfied this requirement but will have additional hours in electives, if hours are required in the major).</p> <p>VII. History 3</p> <p>_____ SHST 101, 102, 105, or 106</p> <p>VIII. Social and Behavioral Sciences 6</p> <p><i>Two courses from the following with two disciplines represented:</i></p> <p>_____ SANT 102; SAAS 201; SECO 221, 222; SGEG 101, 103; SGIS 101, 200 320; SPSY 101; SSOC 101; SWST 101</p>
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¹The successful completion of Mathematics 127 with a minimum grade of C fulfills Group II requirements. The additional three hours are made up as electives.

Major Requirements^{2,3,4,5}	
_____ 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.	15-16

_____ Biology 599: Senior Seminar	3
Supporting Courses	
_____ Chemistry 331 + 331L	4
_____ Chemistry 332 + 332L	4
_____ Statistics (Mathematics 102 or Psychology 225)	3

²A minimum grade of C is required.

³A biology course used to meet biology major requirements may not be taken more than twice.

⁴To receive a biology degree, students must complete at least 15 hours of major course credit at USC Upstate.

⁵A 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.

⁶A cognate is required for all students not fulfilling requirements for a minor that has been approved by their advisor.

⁷Up to 6 hours (8 hours if lab courses) of general education (less than 300-level) may be used to satisfy requirements of a minor.

**Biology majors may select a cognate (12 hours)
OR a minor (18-24 hours)**

_____ **Cognate^{2,6}** 0 or 12
(with approval of advisor)

Physics 201 + 202 recommended	8
Other	4

OR

_____ **Minor^{2,6,7}** 0 or 18
(with approval of advisor)

_____ **Electives** 0-11

_____ **Total Hours Required** **120-122**

**Minor in Biology
Student Worksheet**

Required Courses^{1,2}

_____ 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

¹Up to 6 hours (8 hours if lab courses) of General Education (<300 level) may be used to satisfy requirements of a minor.

²A minimum grade of C is required for all coursework.