Biology B.S.

Degree Requirements: 124 Credit Hours

See Core Curriculum for required courses in Area A1 through Area E.

**General Requirements (Core A - E)**

<table>
<thead>
<tr>
<th>Area</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>BIOL 1107</td>
<td>Principles of Biology I</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>BIOL 1108</td>
<td>Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>CHEM 1212K/1211/1211L/Area D1</td>
<td>Principles of Chemistry I (if not taken in Level 3000 and above)</td>
<td>4</td>
</tr>
<tr>
<td>D1</td>
<td>CHEM 3401</td>
<td>Organic Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>DII</td>
<td>CHEM 3402</td>
<td>Organic Chemistry II</td>
<td>1</td>
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</tbody>
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- Additional Biology, Computer Science, Foreign, Math, Science Course (if needed)

**Major Specific Requirements**

- Carry-over from MATH 1441 Calculus I in Area A or Area D2
- BIOL 1107L Principles of Biology I Laboratory 1
- BIOL 1108L Principles of Biology Laboratory II 1
- CHEM 3401 Organic Chemistry I 4
- CHEM 3402 Organic Chemistry II 4

- Completion of Geology, Physics, or Advisor alternate course (may count if Area F, if needed)
  - GEOG 1121 Introduction to the Earth 1
  - PHYS 1111K Introductory Physics I 1
  - PHYS 2211K Principles of Physics I 1

**Major Requirements**

- BIOL 1107 Principles of Biology I
- BIOL 1108 Principles of Biology II
- CHEM 1211 Principles of Chemistry I
- CHEM 3401 Organic Chemistry I
- CHEM 3402 Organic Chemistry II
- BIOL 3131 Physiology
- BIOL 3133 Evolution and Ecology
- BIOL 3134 Cell and Molecular Biology
- BIOL 4130 Genetics

- Electives (Level 3000 and above) 23
  - BCHM 3200 or BCHM 5201 (may substitute for a BIOL Elective with Advisor approval.)

Three of the above courses must have a laboratory requirement (BIOL 4 credit hour courses or other dedicated laboratory course)

Department recommends that one of the above courses qualify as a "capstone" experience; see Dept. website for list of qualifying courses. A maximum of 7 credit hours of capstone courses can be applied to the B.S. with a Major in Biology.

**Electives**

- Total Credit Hours 124

**Other Program Requirements**

- Students who wish to change their major to Biology must have a total institution GPA of 2.0 or better in all coursework completed at Georgia Southern.
- Transfer students from other institutions who wish to major in Biology must have a GPA of 2.0 or better on all credit hours attempted at other institutions as well as those hours attempted at Georgia Southern.
- Students must earn a "C" or better for the pre-requisite biology courses BIOL 1107, BIOL 1107L, BIOL 1108, BIOL 1108L, BIOL 3131, BIOL 3132, BIOL 3133.
- Students must have a combined average of "C" or better for all biology courses.
- Students must successfully complete the Major Field Test as a departmental exit exam.

**Honors in Biology**

For students entering the University Honors Program as a freshman and seeking to complete the Departmental Honors in Biology, it is highly recommended that these freshmen complete:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 1107</td>
<td>Principles of Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1107L</td>
<td>Principles of Biology I Laboratory</td>
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<tr>
<td>BIOL 1108</td>
<td>Principles of Biology II</td>
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<tr>
<td>BIOL 1108L</td>
<td>Principles of Biology Laboratory II</td>
<td>1</td>
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<tr>
<td>CHEM 1211</td>
<td>Principles of Chemistry I</td>
<td>3</td>
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<tr>
<td>CHEM 3401</td>
<td>Organic Chemistry I</td>
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<tr>
<td>FYE 1220</td>
<td>First-Year Seminar</td>
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<tr>
<td>MATH 1441</td>
<td>Calculus I</td>
<td>4</td>
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</tbody>
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**Freshman/Sophomore Level Courses**

- BIOL 1107 Principles of Biology I 3
- BIOL 1107L Principles of Biology I Laboratory 1
- BIOL 1108 Principles of Biology II 3
- BIOL 1108L Principles of Biology Laboratory II 1
- CHEM 1211 Principles of Chemistry I 3
- CHEM 3401 Organic Chemistry I 4
- CHEM 3402 Organic Chemistry II 4
- BIOL 2320 Research Methods Biology 5
- BIOL 2320 Research Methods Biology 5
- BIOL 2320 Research Methods Biology 5
- BIOL 2320 Research Methods Biology 5

**Recommended Biology Honors Courses**

- BIOL 3630 Current Trends in Biol. Res. 1

A student who does not enter the Departmental Honors in Biology Program as a freshman will be considered for admittance based on the following criteria:

- Freshman Year: Overall GPA of 3.3 or higher, if completed BIOL 1107 and BIOL 1108 must have a grade of "A" in both courses, or an "A" and a "B."
- Sophomore Year: Overall GPA of 3.3 or higher, including completion of BIOL 1107, BIOL 1108, and one intermediate prerequisite (BIOL 3131, BIOL 3132, or BIOL 3133) with a GPA of at least 3.3 in these classes.

Typically, students with 3 semesters or less to complete their degree are not eligible to enter the Departmental Honors in Biology Program.
After entering the Departmental Honors in Biology Program, students are required to complete the required biology honors courses and the capstone experience to earn Departmental Honors in Biology. Students also would be required to maintain a 3.3 overall GPA, including a GPA of 3.3 in courses supportive of the major.