Biology B.S.B.

Degree Requirements: 126 Credit Hours

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

Credit Hours

Area A1 - Communication Skills
Select 6 credit hours from Area A1 of the Core Curriculum 6

Area A2 - Quantitative Skills
Select one of the following: 1

- MATH 1112 College Trigonometry
- MATH 1113 Pre-Calculus
- MATH 1441 Calculus I

Area B - Global Engagement
Select 4 credit hours from Area B of the Core Curriculum 4

Area C - Humanities, Fine Arts, and Ethics
Select 6 credit hours from Area C of the Core Curriculum 6

Area D - Natural Sciences, Mathematics, and Technology
Select 4 credit hours from one of the following lecture and laboratory course pairs: 2

- GEOL 1121 Introduction to the Earth
- PHYS 1111 Introduction to Physics I
- PHYS 2211 Principles of Physics I

Select additional CORE Curriculum courses to complete remaining Area D requirements 7

Area E - Social Sciences
Select 12 credit hours from Area E of the Core Curriculum 12

Area F - Courses Appropriate to Major

Select 6 credit hours from Area F of the Core Curriculum 

BIOL - Prerequisite Courses (required prior to any BIOL courses at the 4000 and 5000-level) 9

- BIOL 3130 Principles of Genetics
- BIOL 3131 Principles of Physiology
- BIOL 3133 Evolution and Ecology

BIOL - Elective Courses (Level 3000 and above) 26

- CHEM 5541 Biochemistry I (May substitute for a BIOL Elective with advisor approval)

Select three of the above courses as a laboratory requirement (BIOL 4 credit hour courses)

Three of the above courses must have a laboratory requirement.

Blended courses are not eligible in Area F.

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

- College Trigonometry (MATH 1112) preferable for BIOL students.
- The listed courses are recommended in Area D.
- While the sequence Principles of Biology I (BIOL 2107) and Principles of Biology I Laboratory (BIOL 2107L) is 4 credit hours, only 3 credit hours will count toward fulfilling Area F. The remaining credit hour will be applied toward Specific Requirements.

Electives
At least six credit hours must be outside Biology 8

Total Credit Hours 126

1 - College Trigonometry (MATH 1112) preferable for BIOL students.
2 - The listed courses are recommended in Area D.
3 - While the sequence Principles of Biology I (BIOL 2107) and Principles of Biology I Laboratory (BIOL 2107L) is 4 credit hours, only 3 credit hours will count toward fulfilling Area F. The remaining credit hour will be applied toward Specific Requirements.

Other Program Requirements
- No more than 40 credit hours of upper division coursework (3000+) in Biology may count toward the 126 minimum for graduation.
- Students must have combined average of "C" or better for all biology courses.

Honors in Biology

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

Credit Hours

Freshman/Sophomore Level Courses

- BIOL 2107H Principles of Biology I
- BIOL 2107L and Principles of Biology I Laboratory
- BIOL 2108H Principles of Biology II
- BIOL 2108L and Principles of Biology II Laboratory
- CHEM 1145 Principles of Chemistry I
- CHEM 1146 and Principles of Chemistry II
- FYE 1220H First-Year Seminar
- MATH 1441H Calculus I

Required Biology Honors Courses

- BIOL 2320H Honors Research Methods in Biology
- BIOL 3630H Honors Current Trends in Biological Research

1 - College Trigonometry (MATH 1112) preferable for BIOL students.
2 - The listed courses are recommended in Area D.
3 - While the sequence Principles of Biology I (BIOL 2107) and Principles of Biology I Laboratory (BIOL 2107L) is 4 credit hours, only 3 credit hours will count toward fulfilling Area F. The remaining credit hour will be applied toward Specific Requirements.
Junior/Senior Level Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4895H</td>
<td>Honors Research</td>
</tr>
<tr>
<td>BIOL 4999H</td>
<td>Honors Thesis</td>
</tr>
</tbody>
</table>

Total Credit Hours: 33

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 2107 and BIOL 2108 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 2107, BIOL 2108, and one intermediate prerequisite (BIOL 3130, BIOL 3131, 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.*

**Advisement**

COSM Advisement Center, Engineering Building, Room 1116, (912) 478-0649