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)  
Area A2 -- Must take MATH 1112, MATH 1113 or MATH 1441  
Area DII -- Must take MATH 1441 if not taken in Area A2 above  

Additional Requirements  
Area F - Courses Appropriate to Major  
BIOL 1107 Principles of Biology I  
BIOL 1108 Principles of Biology II  
CHEM 1211/1211/1211A Area D1  
CHEM 3401 Principles of Chemistry I (if not taken in Area D1)  
CHEM 3402 Principles of Chemistry II (if not taken in Area D1)  

Students should complete a 1 year sequence in either Geology or Physics (second course will be counted under Major Specific Requirements), or an alternate course approved by advisor  
GEOL 1121 Introduction to the Earth  
PHYS 1111K Introductory Physics I  
PHYS 2211K Principles of Physics I  

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  
BIOL 1108L Principles of Biology Laboratory II  
CHEM 3401 Organic Chemistry I  
CHEM 3402 Organic Chemistry II  

Completion of Geology, Physics, or Advisor alternate course (may count if Area F, if needed)  
GEOL 1122 General Historical Geology  
PHYS 1112K Introductory Physics II  
PHYS 2212K Principles of Physics II  

Major Requirements  
BIOL - Prerequisite Courses (required prior to any BIOL courses at the 4000 and 5000-level)  
BIOL 3131 Physiology  
BIOL 3133 Evolution and Ecology  
BIOL 3134 Cell and Molecular Biology  

BIOL - Required Courses  
BIOL 4130 Genetics  

BIOL - Elective Courses (Level 3000 and above)  

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 degree.  

Electives  
10-18  
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 3133, BIOL 3134  
- 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:  

Freshman/Sophomore Level Courses  
BIOL 1107 Principles of Biology I  
BIOL 1107L and Principles of Biology I Laboratory  
BIOL 1108 Principles of Biology II  
BIOL 1108L and Principles of Biology Laboratory II  
CHEM 1211 Principles of Chemistry I  
CHEM 1212 Principles of Chemistry II  
FYE 1220 First-Year Seminar  
MATH 1441 Calculus I  

Required Biology Honors Courses  
Sophomore/Junior Level Courses  
BIOL 2320 Honors Research Methods Biology  
Junior/Senior Level Courses  
BIOL 4895 Honors Research  
BIOL 4999 Honors Thesis  
Recommended Biology Honors Courses  

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 3133, or BIOL 3134) 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.