Biochemistry B.S.

Degree Requirements: 124 Credit Hours

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  
Credit Hours 42

Additional Requirements  
Area F - Courses Appropriate to Major  
CHEM 1211 Principles of Chemistry I  
& 1211L Principles of Chemistry I Laboratory  
or CHEM 1211K Principles of Chemistry I  
CHEM 1212 Principles of Chemistry II  
& 1212L Principles of Chemistry II Laboratory  
or CHEM 1212K Principles of Chemistry II  
MATH 2242 Calculus II  
PHYS 2211K Principles of Physics I (if not taken in Area D1)  
PHYS 2212K Principles of Physics II (if not taken in Area D1)  
Credit Hours 4

Additional hours of chemistry, biology, or computer science (if needed)

Major Specific Requirements  
Carry over from MATH 1441 Calculus I in Area A or Area D  
Carry over from CHEM 2211K/CHEM 2212K Principles of Chemistry I/II in Area F  
BIOL 1107 Principles of Biology I and Principles of Biology I Laboratory  
& 1107L (may count in Area F, if needed)  
BIOL 1108 Principles of Biology II and Principles of Biology Laboratory II  
& 1108L (may count in Area F, if needed)  
Credit Hours 4

Major Requirements  
BIOL 3134 Cell and Molecular Biology  
CHEM 2100 Analytical Chemistry  
BCHM 2910 Introduction to Biochemical Research  
CHEM 3401 Organic Chemistry I  
CHEM 3402 Organic Chemistry II  
BCHM 3100 Bioinstrumental Chemistry  
BCHM 3310 Bioinorganic Chemistry  
BCHM 3510 Biophysical Chemistry  
BCHM 5201 Biochemistry I  
BCHM 5202 Biochemistry II  
Select two credit hours from the list below:  
BCHM 3310L Bioinorganic Laboratory  
BCHM 3511L Biophysical Laboratory  
BCHM 4991 Advanced Biochemical Research  
Credit Hours 2

Select additional elective courses  
Must include at least 2 hours of upper-division (3000-level and above) coursework  
Total Credit Hours 124

1. While CHEM 1211K/1212K Principles of Chemistry I/II are 4 credit hours, only 3 credit hours will be counted toward Area F. The remaining credit hour of each will be applied toward Major Specific Requirements.

2. May not include BCHM 3200 Principles of Biochemistry

Program Admission Criteria  
• Students who wish to change their major to Biochemistry 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 Biochemistry 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.

Other Program Requirements  
• Biochemistry majors must maintain a "C" average in all major coursework which applies toward graduation.

Honors in Biochemistry  
To graduate with Honors in Biochemistry, a student must:  
• be admitted to the University Honors Program  
• complete a capstone project equivalent to three credit hours with a measurable outcome approved by the Department of Chemistry & Biochemistry  
• maintain a 3.3 overall GPA, including a minimum GPA of 3.5 in all major courses applied toward graduation.

This degree is certified by the American Chemical Society (ACS).