Chemistry B.A.

Degree Requirements: 124 Credit Hours

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

General Requirements (Core A - E) 42 Credit Hours

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 4 Credit Hours

Area F - Courses Appropriate to Major
CHEM 1211K Principles of Chemistry I 4
or CHEM 1211 Principles of Chemistry I and Principles of Chemistry I Laboratory
CHEM 1212K Principles of Chemistry II 4
or CHEM 1212 Principles of Chemistry II and Principles of Chemistry II Laboratory
MATH 2242 Calculus II 4
PHYS 2211K Principles of Physics I 4
PHYS 2212K Principles of Physics II 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/2212K Principles of Chemistry I/II in Area F
CHEM 2100 Analytical Chemistry 4
CHEM 2900 Principals of Chemistry Research 3

Major Requirements
CHEM 3300 Inorganic Chemistry 4
CHEM 3401 Organic Chemistry I 4
CHEM 3402 Organic Chemistry II 4
CHEM 3501 Chemical Kinetics and Thermodynamics 4
BCHM 5201 Biochemistry I 4

Students must complete 8 additional hours of upper-level chemistry or biochemistry coursework (3000-level and above, not to include BCHM 3200 Principles of Biochemistry) 2

Foreign Language Requirements (1002 Level)
Completion through 1002-level Foreign Language* 0-3

Minor (Required)
Select 15 credit hours of Minor 15

Electives
Select 5-16 credit hours of Electives 5-16
Must include at least 2 hours of upper-division (3000-level and above) coursework

Total Credit Hours 124

* May be satisfied by a secondary school background showing two (2) years or more of preparation in a single language.

1 While Principles of Chemistry I (CHEM 1211K)/Principles of Chemistry II (CHEM 1212K) 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 a maximum of 4 cr hrs of Chemical Research Experience (CHEM 4900) and/or CHEM 4790, and only 1 cr hr of Teaching Internship in Chemistry (CHEM 3700) may be counted toward the upper-level chemistry coursework.

Program Admission Criteria

• Students who wish to change their major to Chemistry 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 Chemistry 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

• Chemistry majors must maintain a “C” average in all major coursework which applies toward graduation.

Honors in Chemistry

To graduate with Honors in Chemistry, 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).