Chemistry B.S.

Degree Requirements: 124 Credit Hours

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

General Requirements (Core A - E)  42
Area A2 -- Must take MATH 1112, MATH 1113 or MATH 1441  4
Area DII -- Must take MATH 1441 if not taken in Area A2 above  4

Additional Requirements  4
Area F - Courses Appropriate to Major
CHEM 1211K Principles of Chemistry I  4
or CHEM 1211 & 1211L Principles of Chemistry I and Principles of Chemistry I Laboratory  4
CHEM 1212K Principles of Chemistry II  4
or CHEM 1212 & 1212K Principles of Chemistry II and Principles of Chemistry II  4
MATH 2242 Calculus II  4
PHYS 2211K Principles of Physics I (if not taken in Area D1)  4
PHYS 2212K Principles of Physics II (if not taken in Area D1)  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 D2  1
Carry over from CHEM 1211K/1212K in Area F  2
CHEM 2900 Principles of Chemistry Research  3
CHEM 2100 Analytical Chemistry  4

Major Requirements
CHEM 3100 Instrumental Analysis  4
CHEM 3300 Inorganic Chemistry  4
CHEM 3401 Organic Chemistry I  4
CHEM 3402 Organic Chemistry II  4
CHEM 3501 Chemical Kinetics and Thermodynamics  4
CHEM 3502 Introduction to Quantum Chemistry  4
BCHM 5201 Biochemistry I  4

Students must complete 9 additional hours of upper-level chemistry or biochemistry coursework (3000-level and above, not to include BCHM 3200)  9

Electives
Select 13-21 credit hours of Electives  13-21
Must include at least 2 hours of upper-division (3000-level and above) coursework  2

Total Credit Hours  124

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

2 A maximum of 4 cr hrs of CHEM 4900 Chemical Research Experience and/or CHEM 4790 Chemistry Internship and only 1 cr hr of CHEM 3700 Teaching Internship in Chemistry, 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 and 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).