# Chemistry B.S.

## Degree Requirements: 124 Credit Hours

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

<table>
<thead>
<tr>
<th>General Requirements (Core A - E)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A2 -- Must take MATH 1112, MATH 1113 or MATH 1441</td>
<td>1</td>
</tr>
<tr>
<td>Area DII -- Must take MATH 1441 if not taken in Area A2 above</td>
<td>1</td>
</tr>
<tr>
<td>Additional Requirements</td>
<td>1</td>
</tr>
<tr>
<td><strong>Area F - Courses Appropriate to Major</strong></td>
<td><strong>Credit Hours</strong></td>
</tr>
<tr>
<td>CHEM 1211K Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1211 and Principles of Chemistry I Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1212K Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1212 and Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2242 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2211K Principles of Physics I (if not taken in Area D1)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2212K Principles of Physics II (if not taken in Area D1)</td>
<td>4</td>
</tr>
<tr>
<td>Additional hours of chemistry, biology, or computer science (if needed)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Major Specific Requirements**
- Carry over from MATH 1441 Calculus I in Area A or Area D2
- Carry over from CHEM 1211K/1212K in Area F
- CHEM 2900 Principles of Chemistry Research
- CHEM 2100 Analytical Chemistry

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

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

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

**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.

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**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).*