# Chemistry B.A.

## Degree Requirements: 124 Credit Hours

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

### General Requirements (Core A - E)

<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>MATH 1112, MATH 1113 or MATH 1441</td>
<td>4</td>
</tr>
<tr>
<td>A2</td>
<td>MATH 1441 if not taken in Area A2 above</td>
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</tbody>
</table>

### Additional Requirements

<table>
<thead>
<tr>
<th>Area F - Courses Appropriate to Major</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1211K</td>
</tr>
<tr>
<td>or CHEM 1211 &amp; 1211L</td>
</tr>
<tr>
<td>CHEM 1212K</td>
</tr>
<tr>
<td>or CHEM 1212 &amp; 1212L</td>
</tr>
<tr>
<td>MATH 2242</td>
</tr>
<tr>
<td>PHYS 2211K</td>
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<tr>
<td>PHYS 2212K</td>
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</tbody>
</table>

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 Principles 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 |

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* 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) and 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).