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>42</td>
</tr>
<tr>
<td>Area DII -- Must take MATH 1441 if not taken in Area A2 above</td>
<td>4</td>
</tr>
</tbody>
</table>

**Additional Requirements**

<table>
<thead>
<tr>
<th>Area F - Courses Appropriate to Major</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1211K Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1211 Principles of Chemistry I 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>CHEM 1212 Principles of Chemistry II 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>
</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 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) ² | 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 |

**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).