# BACHELOR OF SCIENCE

## CHEMISTRY

### BIOCHEMISTRY CONCENTRATION

### GENERAL EDUCATION CORE REQUIREMENTS

#### Competencies

- Basic College Math
- Reading Comprehension
- Computer Literacy

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPC 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>SMS (Activity)</td>
<td>5</td>
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<td>5</td>
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</tbody>
</table>

**Distribution Sequences (18-20 credits)**

- * PHS 211A or 221 Physics I | 4 |
- * PHS 212A or 222 Physics II | 4 |
- HST 101 World History I | 3 |
- HST 102 World History II | 3 |
- (Literature I) | 3 |
- (Literature II) | 3 |

#### Distribution Electives (15 credits)

Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions.

- **Humanities (Division I)**

- **Science/Mathematics (Division II)**

- **Social Sciences (Division III)**

(Complete courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)

#### Quantitative (Q) DIVERSITY (V) WRITING (W)

### COURSES IN MAJOR (41 credits total)

#### Freshman Year

- CHE 130 General Chemistry I | 4 |
- CHE 212 Organic Chemistry I | 4 |

#### Sophomore Year

- CHE 213 Organic Chemistry II | 4 |
- CHE 231 Quantitative General Chemistry | 4 |
- CHE 309 Biochemistry | 4 |

#### Junior Year

- CHE 321 Quantitative Analysis | 4 |
- CHE 340 Techniques in Inorganic & Organic Synth. | 4 |
- CHE 341 Physical Chemistry I | 4 |
- CHE 342 Physical Chemistry II | 4 |
- CHE 422 Instrumental Analysis | 4 |

#### Senior Year

- CHE 560 Chemistry Seminar | 1 |

### SUPPORT COURSES (16 credits total)

- BIO 132 Introduction to Cells | 4 |
- BIO 212 Cell Biology | 4 |
- BIO 409 Biological Chemistry | 4 |

**and one of the following:**

- BIO 402 Genetics
- BIO 405 General Physiology
- BIO 406 Microbiology
- BIO 411 Immunology | 4 |

† **FREE ELECTIVES (13 credit minimum)**

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

### Exceptions in the timing of courses will be made for transfer students.

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* These are required support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does not reduce the total credits required for graduation.

+ ITC 100 is required of students who did not pass the Computer Literacy Test and must be taken in the first semester of the Freshman year or the transfer year.

† It is strongly recommended that students elect additional mathematics, physics, biology and computer science courses.

Effective: 9/10

Salem State College