# BACHELOR OF SCIENCE
## CHEMISTRY

### (ACS APPROVED)

## GENERAL EDUCATION CORE REQUIREMENTS

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<th>Competencies</th>
<th>ENG 101 Composition I</th>
<th>ENG 102 Composition II</th>
<th>SPC 101 (Public Speaking)</th>
<th>SMS (Activity)</th>
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<td>Basic College Math</td>
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### 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)

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

- 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 biology, mathematics, physics and computer science courses.

### COURSES IN MAJOR (53 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 308 Descriptive Inorganic Chemistry 3
- CHE 321 Quantitative Analysis 4
- CHE 340 Techniques in Inorganic & Organic Synthesis 4
- CHE 341 Physical Chemistry I 4
- CHE 342 Physical Chemistry II 4
- CHE 422 Instrumental Analysis 4

#### Senior Year
- CHE 441 Advanced Inorganic Chemistry 3
- CHE 442 Physical Organic Chemistry 3
- CHE 560 Chemistry Seminar 1
- CHE 572 Chemistry Research I 3

### SUPPORT COURSE (4 credits total)
- PHS 311 General Physics III 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.

Total minimum credits for graduation: 120

Effective: 9/10

Salem State College