## BACHELOR OF SCIENCE IN CHEMISTRY
### BIOCHEMISTRY OPTION
### RECOMMENDED PROGRAM (1)

### FIRST SEMESTER
- **CHEM 111** Intro Chem I 4.0
- **CHEM 188** Freshman Seminar 1.0
- **BIOL 100** General Biology 3.0
- **MATH 161** Calculus I 4.0
- **ENGL 110** English Composition 3.0
- **BIO 100** General Biology 3.0
- **MATH 161** Calculus I 4.0
- **ENGL 110** English Composition 3.0

**TOTAL S.H.** 15.0

### SECOND SEMESTER
- **CHEM 112** Intro Chem II 4.0
- **CHEM 251** Inorganic Chem I 3.0
- **COMM 100** Fund. of Speech 3.0
- **MATH 211** Calculus II 4.0
- **WELL 175** Wellness 3.0
- **CHEM 251** Inorganic Chem I 3.0
- **COMM 100** Fund. of Speech 3.0
- **WELL 175** Wellness 3.0

**TOTAL S.H.** 17.0

### THIRD SEMESTER
- **CHEM 231** Organic I 4.0
- **PHYS 231** Physics I 5.0
- **MATH 311** Calculus III 4.0
- ** Humanities Course #1** 3.0

**TOTAL S.H.** 16.0

### FOURTH SEMESTER
- **CHEM 232** Organic II 4.0
- **PHYS 232** Physics II 5.0
- **CHEM 265** Quant. Analysis 4.0
- ** Humanities Course #2** 3.0

**TOTAL S.H.** 16.0

### FIFTH SEMESTER
- **CHEM 341** Physical Chem I 4.0
- **BIOL 364** Fund Genetics & Molecu 4.0
- ** Humanities Course #3** 3.0
- ** Social Sciences Course #1** 3.0

**TOTAL S.H.** 14.0

### SIXTH SEMESTER
- **CHEM 342** Physical Chem II 4.0
- **CHEM 392** Advanced Lab II 1.0
- **Chemistry Elective** 3.0
- **Advanced Writing** 3.0
- ** Social Sciences Course #2** 3.0

**TOTAL S.H.** 14.0

### SEVENTH SEMESTER
- **CHEM 326** Biochemistry I 4.0
- **CHEM 400** Req'd Biol. Course 3-4.0
- **C&E Course #1** 3.0
- **Social Science Course #3** 3.0

**TOTAL S.H.** 15.5-16.5

### EIGHTH SEMESTER
- **CHEM 327** Biochemistry II 4.0
- **CHEM 465** Analytical Chemistry 4.0
- **CHEM 488** Chemistry Seminar 0.5
- **C&E Course #4** 3.0
- **Perspectives Course** 3.0

**TOTAL S.H.** 15.5

### COMMENTS, NOTES OR RECOMMENDATIONS:

* Students opting for ACS Certification in Biochemistry should take Advanced Laboratory II (CHEM 392). The prerequisite of CHEM 391 has been waived for biochemistry majors.

** If you choose to take Genetics in the same year as CHEM 327 and 328, you MUST do so in the FALL semester to avoid scheduling conflicts in the spring semester.

*** Students seeking ACS Certification must take a minimum of 2 credit hours of CHEM 498 in the Chemistry Elective Block.

1. Connections & Exploration (C&E) courses #1 and #4 can be satisfied with any approved GenEd course.
2. Cultural Diversity & Community (D) course may be satisfied with approved courses from the GenEd requirements (including Perspectives), the major, the minor, the required related area, or general electives.

The American Chemical Society (ACS) and the Chemistry Department strongly recommend an Introductory Economics course (ECON 100, for example) among the Social Science (G3) electives and Elementary Foreign language (FORL 101 and 102) among the Humanities (G1) electives. ENGL 312 (Technical Writing) is highly recommended.

[See the next page for an alternate program sequence.]
BACHELOR OF SCIENCE IN CHEMISTRY  
BIOCHEMISTRY OPTION  
RECOMMENDED PROGRAM (2)  

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
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<tbody>
<tr>
<td>CHEM 111 Intro Chem I 4.0</td>
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<tr>
<th>THIRD SEMESTER</th>
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<tr>
<td>CHEM 231 Organic I 4.0</td>
<td>CHEM 232 Organic II 4.0</td>
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<td>PHYS 232 Physics II 5.0</td>
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<td>CHEM 265 Quant. Analysis 4.0</td>
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<tr>
<td>______ ______ G1 or G3 Course #1 3.0</td>
<td>______ ______ G1 or G3 Course #2 3.0</td>
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<th>FIFTH SEMESTER</th>
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<tr>
<td>CHEM 326 Biochemistry I 4.0</td>
<td>CHEM 327 Biochemistry II 4.0</td>
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<tr>
<td>BIOL 365 Genetics 4.0</td>
<td>CHEM 328 Anal Biochemistry Lab 1.0</td>
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<tr>
<td>ENGL 3XX Advanced Writing 3.0</td>
<td>CHEM 498 Intro to Research 1.0</td>
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<tr>
<td>______ ______ G1 or G3 Course #3 3.0</td>
<td>______ ______ G1 or G3 Course #4 3.0</td>
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<td>______ ______ G1 or G3 Course #5 3.0</td>
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<td>______ ______ Perspectives Course 3.0</td>
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<td>CHEM ______ Chemistry Elective*** 2.0</td>
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<td>______ ______ C&amp;E Course #4 3.0</td>
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