**Major Requirements**

(35-40 Hrs.)

<table>
<thead>
<tr>
<th>Hrs</th>
<th>Grade</th>
<th>Course</th>
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<tbody>
<tr>
<td>4</td>
<td></td>
<td>CHEM 1230 General Chemistry I and</td>
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<tr>
<td>1</td>
<td></td>
<td>CHEM 1240 General Chemistry I Lab OR</td>
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<tr>
<td>5</td>
<td></td>
<td>CHEM 1350 General Chemistry</td>
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<tr>
<td>4</td>
<td></td>
<td>CHEM 1270 or 1370 Gen. Chem. II</td>
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<tr>
<td>1</td>
<td></td>
<td>CHEM 1280 or 1380 Gen. Chem. II Lab</td>
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<tr>
<td>3</td>
<td></td>
<td>CHEM 2010 Quantitative Chemical Analysis</td>
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<tr>
<td>5</td>
<td></td>
<td>CHEM 3410 Organic Chemistry</td>
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<tr>
<td>3</td>
<td></td>
<td>CHEM 3440 Organic Chemistry</td>
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<tr>
<td>2</td>
<td></td>
<td>CHEM 3450 Organic Chemistry Lab</td>
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<tr>
<td>2</td>
<td></td>
<td>CHEM 4070 Integrated Lab</td>
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<tr>
<td>3</td>
<td></td>
<td>CHEM 4450 General Biochemistry</td>
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<tr>
<td>1</td>
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<td>CHEM 4460 General Biochemistry Lab</td>
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<tr>
<td>3</td>
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<td>CHEM 4470 General Biochemistry</td>
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</table>

Complete all courses in either Track 1 or Track 2

**Track 1**

- 4 | CHEM 4050 Physical Chemistry
- 4 | CHEM 4060 Physical Chemistry
- 4 | BIOL 2040 Concepts in Biology I or BIOL 3130 Microbiology
- 5 | MATH 2320 Calc. and Analytical Geom II

**Track 2**

- 3 | CHEM 3520 Essentials of Physical Chemistry
- 4 | BIOL 2040 Concepts in Biology I
- 4 | BIOL 3130 Microbiology
- 4 | BIOL 3500 General Genetics

* Biology and Math courses may be used in minors

**Additional Specific Requirements**

- 5 | PHYS 2010 or 2110 College or Univ. Physics I
- 5 | PHYS 2020 or 2120 College or Univ. Physics II
- 4 | BIOL 2050 Concepts in Biology II

**Minor Requirements**

You must complete a minor. A "general science" minor is also available. Consult your Faculty Advisor.

**University Requirements**

Designated courses in Humanities and the Arts and the Social and Behavioral Sciences domains may be used to fulfill both the BGP requirement and one of the following university requirements:

- Cultural Diversity in the US
- International Perspective

**Composition Requirement:**

WRIT 1120 Research Writing

Total BGP Credits: Must be at least 36

**Arts & Sciences Requirements**

**Foreign Language** (_____ yrs of HS_______)

- 1010
- 1020
- 2010
- 2020/2120

**Lab Science**

**Quantitative Literacy**

EITHER MATH 1310 OR MATH 1340 & MATH 1350

**Multidisciplinary Component**

Select from approved offerings, in consultation with an advisor and a faculty mentor. Four courses total, each with a different subject prefix. At least two courses at 3000/4000 level. Courses applied to the Arts & Sciences MDC may not be used to fulfill other Arts and Sciences degree requirements, nor may they be used to fulfill major, minor, BGP or other program requirements.

**ACS Certification**

By completing the Track 1 degree requirements with the following additional courses the Chemistry: Biochemistry Specialization BS degree is eligible for certification by the American Chemical Society.

- 3 | CHEM 4630 Advanced Inorganic Chemistry
- 3 | Additional credit hours from the following: CHEM 4130, 4160, 4420, 4540, or 4680
- 2 | Two additional laboratory credit hours from the following: CHEM 4080 or 4130

1**CHEM 4130 hours can be used to count for both requirements.**

The ACS strongly recommends completion of courses in calculus-based physics (two-semesters) and the study of multivariable calculus, linear algebra, and differential equations, as well as an undergraduate research experience such as CHEM 4130.
For Graduation You Will Need:

1. 122 credit hours minimum.
   
   In Progress/Completed ________  Needed ________

2. Minimum GPA 2.00.

   Current GPA __________

3. At least 30 credit hours of BGSU course work.

   In Progress/Completed ________  Needed ________

4. 40 credit hours at the 3000/4000 level.

   In Progress/Completed ________  Needed ________

5. Completion of all degree requirements, including the BG Perspective Core.

   In Progress/Completed ________  Needed ________

6. A major, and if required, a minor, specialization or emphasis.

   Declared with the College Office  ☐ Yes  ☐ No

Any substitution or waiver of courses required for your major or minor program must originate in the department/school offering the major or minor and must be approved by the College Office.

To ensure a timely graduation, see a College Advisor during the semester prior to your intended graduation.

Remember to complete an Application for Graduation by the end of the second week of classes during the fall semester or spring regular session, or by the end of the first week of the summer semester. For the specific dates, check your DARS. You may log onto MyBGSU to complete the online application. After the deadlines, you will need to complete an application in person in the College Office.