

**Fall 2020**  
**Bachelor of Science in Chemistry**  
**Specialization in Biochemistry**

**BG Perspective (BGP) Requirements**

**Must complete at least 1 course in each of the following:**

English Composition and Oral Communication  
 Course \_\_\_\_\_ Credits \_\_\_\_\_

Quantitative Literacy  
 \_\_\_\_\_

**Must Complete at least 2 courses in each of the following:**

Humanities and the Arts  
 \_\_\_\_\_

Natural Sciences - at least one Lab Science required  
 \_\_\_\_\_

Social and Behavioral Sciences  
 \_\_\_\_\_

**Complete total required BGP credit hours by selecting courses from any of the above categories:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**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.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Major Requirements (35-40 Hrs.)**

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

**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.

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 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**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	_____	Three additional credit hours from the following: CHEM 4130 <sup>1</sup> , 4160, 4420, 4540, or 4660
2	_____	Two additional laboratory credit hours from the following: CHEM 4080 or 4130 <sup>2</sup>

<sup>1,2</sup>CHEM 4130 hours can be used to count for both requirements.

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

\_\_\_\_\_  
Name (Print First & Last Name)

\_\_\_\_\_  
BGSU ID#

\_\_\_\_\_  
Phone (Cell or Local Number)

**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.