

College of Arts & Sciences
205 Administration Building
419-372-2015

Chemistry Biochemistry Specialization

Chemistry
141 Overman Hall
419-372-2031

Name _____ BGSU ID _____

Return Address _____

Phone Number _____ Expected Date of Graduation _____

BG Perspective Requirements: 2 Natural Sciences _____, 2 Social Sciences _____,
2 Arts & Humanities _____, International Perspective _____, Cultural Diversity _____,
GSW 1120 _____, Quantitative Literacy (Group C Recommended) _____
These courses may apply toward the requirements listed below

I. English Composition (Only 6 hours GSW 1100, 1110, 1120 will apply towards graduation)

Hrs	Grade	
_____	_____	GSW 1100/1110
_____	_____	GSW 1120

II. Foreign Language (_____ yrs HS _____)
(Courses used for the foreign language requirement may not be used for major or minor requirements)

_____	_____	1010	_____
_____	_____	1020	_____
_____	_____	2010	_____
_____	_____	2020/2120	_____

III. Science & Math
45 hours in 2 or more areas including major and lab science sequence

_____	_____	MATH 1310 or 1340 & 1350 (QL)
_____	_____	CHEM 1250 or 1350
_____	_____	CHEM 1270 & 1280 or 1370 & 1380
_____	_____	_____
_____	_____	_____

IV. Social Sciences
Choose 4 courses

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

V. Arts & Humanities
4 courses, at least 1 literature and 1 fine art

_____	_____	Literature	_____
_____	_____	Fine Arts	_____
_____	_____		_____
_____	_____		_____

Major Requirements (35-40 hrs)

Hrs	Grade	
5	_____	CHEM 1250 or 1350 Gen. Chem. I
4	_____	CHEM 1270 or 1370 Gen. Chem. II
1	_____	CHEM 1280 or 1380 Gen. Chem. II Lab
3	_____	CHEM 2010 Quantitative 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
5-4	_____	BIOL 2040 Concepts in Biology I or BIOL 3130 Microbiology
5	_____	MATH 2320 Calc. and Analytical Geom II
Track 2*		
3	_____	CHEM 3520 Physical Chemistry
5	_____	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
5	_____	BIOL 2050 Concepts in Biology II

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

_____	_____	_____
_____	_____	_____
_____	_____	_____

Chemistry
Biochemistry Specialization

INSTRUCTIONS:

You must complete an official junior audit with your college advisor during your **junior** year [60-89 hours]. To do so, you must schedule an appointment with a college advisor. You should bring a completed copy of this check sheet and a current copy of your Degree Audit Reporting System (DARS) report. Your college advisor will provide you with a detailed form that specifies your remaining requirements for graduation.

FOR GRADUATION YOU WILL NEED

1. Minimum GPA 2.00
2. 122 credit hours minimum, and,
3. A major, and if required, a minor, specialization or emphasis
4. 40 credit hours at the 3000/4000 level
5. Completion of all degree requirements, including the BG Perspective Core
6. At least 30 credit hours of BGSU course work
7. An official audit completed during the junior year, on file in the College Office

Any substitution or waiver of courses required for your major program **must** originate in the department/school offering the major program 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 and spring semesters, or by the end of the first week of the summer semester. For the specific dates, check with the College office or the Office of Registration and Records. You may log onto **MyBGSU** to complete the on-line application. After the deadlines, you will need to complete an application in person in the College office.

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.

- | | | |
|------------------|-----------------|--|
| <u> 3 </u> | <u> </u> | CHEM 4630 Advanced Inorganic Chemistry |
| <u> 3 </u> | <u> </u> | Three additional credit hours from the following: CHEM 4130 ¹ , 4160, 4420, 4540, or 4660 |
| <u> 2 </u> | <u> </u> | Two additional laboratory credit hours from the following: CHEM 4080 or 4130 ² |

^{1,2}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.

College Advisor's Signature

Date

Student's Signature

Date