

## BS Chemistry

12 credits in the major and 9 credits in the minor must be completed at Alvernia University  
When pursuing a double major, you must have 12 distinct credits between the two majors.

Semester 1	Credits	Semester 2	Credits
<b>Diversity graduation requirement <span style="color: red;">cannot</span> be fulfilled through major courses; students should fulfill this with a Gen Ed class</b>			
SRH 101 Search Sem-Enduring Questions or HNR 160: Honor Search-Enduring Questions	3	CHE 105 – General Chemistry II	3
CHE 104 – General Chemistry I	3	CHE 111 – General Chemistry II Lab	1
CHE 110 – General Chemistry I Lab	1	MAT 230 – Calculus I	4
CHE 107 – Laboratory Safety	1	THE 105 or PHI 105	3
MAT 131	3	Gen Ed	3
THE 105 or PHI 105	3	Gen Ed	3
<b>TOTAL</b>	<b>14</b>	<b>TOTAL</b>	<b>17</b>
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 3	Credits	Semester 4	Credits
CHE 201 – Organic Chemistry I	3	CHE 202 – Organic Chemistry II	3
CHE 210 – Organic Chemistry I Lab	1	CHE 211 – Organic Chemistry II	1
PHY 200 – Physics I with lab of CHE 212	4	Lab PHY 201 – Physics II with lab	4
Gen Ed	3	MAT 231 - Calculus II	4
Gen Ed	3	MAT 220 – Math/Statistics Computer Lab	1
<b>TOTAL</b>	<b>14</b>	Gen Ed	3
Complete 5 hours of Community Service		<b>TOTAL</b>	<b>16</b>
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 5	Credits	Semester 6	Credits
<b>***NOTE: Math &amp; Science students can enroll for an optional Math &amp; Science internship for 6 credits any time after they reach Junior standing.</b>			
CHE 212 – Analytical Chemistry w/ lab or PHY 200	4	CHE 221 – Instrumental Analysis	4
CHE 301 – Physical Chemistry I	3	CHE 302 – Physical Chemistry II	3
CHE 310 - Physical Chemistry I Lab	1	CHE 311 – Physical Chemistry II Lab	1
Gen Ed	3	CHE 406 (offered every other year) or Gen Ed	3
Gen Ed	3	Gen Ed	3
Gen Ed	3	<b>TOTAL</b>	<b>14</b>
<b>TOTAL</b>	<b>17</b>	Complete 5 hours of Community Service	
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 7	Credits	Semester 8	Credits
SCI 402 –Seminar	2	CHE 406 – Advanced Inorganic Chemistry (offered every other year) or Gen Ed	3
SCI 406 – Research I or SCI 480: Internship	3	SCI 407 – Research II or SCI 480: Internship	3
CHE Elective	3-4	CHE Elective	3-4
Gen Ed	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>TOTAL</b>	<b>17-18</b>	<b>TOTAL</b>	<b>15-16</b>
Complete 5 hours of Community Service		Complete 5 hours of Community Service	

### Academic Policy on Eligibility for Participation of May Commencement Ceremony

*The academic policy, which the Registrar follows, is: A student who has 6 or less credits remaining to complete the degree may participate in the May Commencement Ceremony. The Graduation Application is available online in myAlvernia on the 'Academics' tab. Seniors must submit the Graduation Application to the Registrar's Office as follows: October 1 for May Graduation; December 1 for August graduation; and March 1 for December graduation.*

*If you have any questions, please call the Registrar's Office (610.796.8201)*

## **Curriculum Sheets, EAB Navigate, and AUAdvise**

The information on this page and the Curriculum Sheet is provided in AUAdvise - EAB Navigate as a static tool for discussion purposes when meeting with students to schedule courses. [Degree Audit uAchieve](#) remains the official source for each student's curriculum audit. Degree Audit uAchieve must be used together with the Curriculum Sheet to determine whether the information noted during scheduling meetings on the curriculum sheet remains accurate.

### **General Notes**

- A minimum of 123 credits are required for graduation.
- Where appropriate, courses required for the major can be used to satisfy General Education requirements. However, the credits earned for these courses are applied to either Gen Ed requirements or the major, not both.
- Paths of Knowledge coursework may count towards major or minor requirements, but may not fulfill a second Mid-Level Liberal Arts Exploration requirement.
- Students are expected to follow the catalog requirements for General Education, the major, and additional requirements.
- A minor or second major within the areas listed under Paths of Knowledge automatically fulfills that area of the Gen Ed requirements.
- Students must complete 45 of their last 60 credits at Alvernia University
- Students must complete community service hours as part of the General Education Program

# Degree/Major: BS CHEMISTRY

Name: \_\_\_\_\_ Id: \_\_\_\_\_

2<sup>nd</sup> Major: \_\_\_\_\_ 3<sup>rd</sup> Major: \_\_\_\_\_ Minor: \_\_\_\_\_ 2<sup>nd</sup> Minor: \_\_\_\_\_

Matriculation Year 2023-2024 - Term: \_\_\_\_\_

## GENERAL EDUCATION

### Grade Notes:

### Enduring Questions (12 cr)

\_\_\_/ SEARCH Sem. Enduring Questions (3) \_\_\_\_\_  
\_\_\_/ THE 105 Foundations of Theology (3) \_\_\_\_\_  
\_\_\_/ PHI 105 Introduction to Philosophy (3) \_\_\_\_\_  
\_\_\_/ COM 101 Composition & Research (3) \_\_\_\_\_  
(C grade or better)

### Exploring the Natural World (6-8)

\_\_\_/ MAT \_\_\_\_\_ (3-4) \_\_\_\_\_  
(not MAT 100)  
 Met with PHY (x) \_\_\_\_\_  
(Science with Lab)

### Culture & Language (9 cr)

\_\_\_/ COM \_\_\_\_\_ (3) \_\_\_\_\_  
(not COM 100 or 101)  
World Language – 2 courses in sequence  
\_\_\_/ \_\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_/ \_\_\_\_\_ (3) \_\_\_\_\_

### Individuals & Communities (6 cr)

\_\_\_/ HIS or POS \_\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_/ \_\_\_\_\_ (3) \_\_\_\_\_  
(PSY, HIS, POS, SOC, SSC, or ECON)

### Creative Expressions (6 cr)

\_\_\_/ LIT \_\_\_\_\_ (3) \_\_\_\_\_  
\_\_\_/ \_\_\_\_\_ (3) \_\_\_\_\_  
(Art, Music, or Theatre)

### Ethical Leaders & Followers (6 cr)

\_\_\_/ THE/PHI \_\_\_\_\_ (3) \_\_\_\_\_  
(200-400 level)  
\_\_\_/ THE/PHI \_\_\_\_\_ (3) \_\_\_\_\_  
(ethics/morality @ 200 level)

### Paths of Knowledge (9 cr @ 200-400 level in ONE path)

Path 1: Interdisciplinary Study; Path

2: Multidisciplinary Study;

Path 3: In-depth Disciplinary Study-MATH

Met with MAT 220 (x) \_\_\_\_\_  
 Met with MAT 230 (x) \_\_\_\_\_  
 Met with MAT 231 (x) \_\_\_\_\_

Human Diversity: \_\_\_\_\_  
 Senior Capstone: will be met with SCI 406/407  
 Writing Enhanced Course: will be met with CHE 211   
Community Service Hours: Required: \_\_\_\_\_ Met: \_\_\_\_\_  
 Overall GPA >= 2.00  
 GPA in Major >= 2.00  
 Min 123 non-remedial credits earned

### Residency Requirements:

45 of last 60 credits  
 Min 12 Alvernia credits in major  
 Min 9 Alvernia credits in minor (if applicable)

## CHEMISTRY (67-72 cr)

### Major (44 cr)

\_\_\_/ CHE 104 General Chemistry I (3) \_\_\_\_\_  
\_\_\_/ CHE 105 General Chemistry II (3) \_\_\_\_\_  
\_\_\_/ CHE 107 Laboratory Safety (1) \_\_\_\_\_  
\_\_\_/ CHE 110 General Chemistry Lab I (1) \_\_\_\_\_  
\_\_\_/ CHE 111 General Chemistry Lab II (1) \_\_\_\_\_  
\_\_\_/ CHE 201 Organic Chemistry I (3) \_\_\_\_\_  
\_\_\_/ CHE 202 Organic Chemistry II (3) \_\_\_\_\_  
\_\_\_/ CHE 210 Organic Chemistry Lab I (1) \_\_\_\_\_  
\_\_\_/ CHE 211 Organic Chemistry Lab II (1) \_\_\_\_\_  
\_\_\_/ CHE 212 Analytical Chemistry (4) \_\_\_\_\_  
\_\_\_/ CHE 221 Instrumental Analysis (4) \_\_\_\_\_  
\_\_\_/ CHE 301 Physical Chemistry I (3) \_\_\_\_\_  
\_\_\_/ CHE 302 Physical Chemistry II (3) \_\_\_\_\_  
\_\_\_/ CHE 310 Physical Chemistry Lab I (1) \_\_\_\_\_  
\_\_\_/ CHE 311 Physical Chemistry Lab II (1) \_\_\_\_\_  
\_\_\_/ CHE 406 Advanced Inorganic Chem (3) \_\_\_\_\_  
\_\_\_/ SCI 402 Seminar (2) \_\_\_\_\_

### Select:

\_\_\_/ SCI 480 Internship ( ) \_\_\_\_\_  
\_\_\_/ SCI 480 Internship ( ) \_\_\_\_\_  
(must complete a total of 6 credits)

### OR

\_\_\_/ SCI 406 Research I (3) \_\_\_\_\_  
\_\_\_/ SCI 407 Research II (3) \_\_\_\_\_

### Major Electives (6-8 cr)

Choose 6-8 cr from: CHE 401/410, 403, 404, 405;  
MAT 209, 232

\_\_\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_/ \_\_\_\_\_ ( ) \_\_\_\_\_

### Related Requirements (17 cr)

\_\_\_/ MAT 220 Mat Comp/Statistics Lab (1) \_\_\_\_\_  
\_\_\_/ MAT 230 Calculus I (4) \_\_\_\_\_  
\_\_\_/ MAT 231 Calculus II (4) \_\_\_\_\_  
\_\_\_/ PHY 200 Physics I (4) \_\_\_\_\_  
\_\_\_/ PHY 201 Physics II (4) \_\_\_\_\_

### Recommended:

\_\_\_/ MAT 131 Pre-Calculus (3) \_\_\_\_\_

### ELECTIVES (as needed)

\_\_\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
\_\_\_/ \_\_\_\_\_ ( ) \_\_\_\_\_  
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