

# CHEMISTRY B.A.

## Pre-Health/Interdisciplinary Sciences Option

### ACADEMIC ADVISING

*Partnering with students to successfully navigate college*

**Location:** Main Hall 208

**Phone:** 719.255.3260

**Website:** [Academic Advising](http://www.uccs.edu/academic-advising)

**Connect With Your Advisor**

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- Appointments: [www.uccs.edu/advising/current-students](http://www.uccs.edu/advising/current-students)

Prospective Students: [www.uccs.edu/admissions/contact](http://www.uccs.edu/admissions/contact)

### GENERAL ACADEMIC INFORMATION

#### Minimum Graduation Requirements

- 120 credit hours
- 45 upper-division credit hours (3000-4999 level)
- 2.0 CU cumulative GPA
- Residency: At least 30 credit hours of the degree must be completed while registered in the College of Letters, Arts, and Sciences at UCCS.

#### Student Responsibilities

Students are required to know and follow:

- All academic policies set forth by the University, College, and academic department in the UCCS Catalog: [catalog.uccs.edu](http://catalog.uccs.edu)
- All course prerequisites designated by the University. Failure to meet course prerequisites may result in an administrative drop of the course from a student's schedule. See degree audit for course prerequisites within the academic major.

### DEGREE REQUIREMENTS

Explore Chemistry: [Degree and Career Information | Department of Chemistry & Biochemistry \(uccs.edu\)](http://www.uccs.edu/department-of-chemistry-and-biochemistry)

Major Requirements				
BA Chemistry Major (37 hours)	Course/Area	Course Title	Credit Hours	
<ul style="list-style-type: none"> <li>• Requires a minimum of 37 credit hours of CHEM course work, and an additional 17 hours of auxiliary coursework.</li> <li>• Requires a minimum of 16 credit hours of upper-division (3000-4000 level) CHEM course work.</li> <li>• All CHEM and auxiliary courses must have a grade of "C" or better.</li> </ul>	CHEM 1401/1402	General Chemistry I and Lab I	5	
	CHEM 1511/1513	General Chemistry for Majors II and Lab II	5	
	CHEM 3101/3102	Organic Chemistry I and Lab I	4	
	CHEM 3111/3112	Organic Chemistry II and Lab II	4	
	CHEM 4001/4002	Analytical Chemistry I and Lab	4	
	CHEM 4211	Biochemistry	3	
	CHEM 4701 or CHEM 4101 or CHEM 4111	Biophysical Chemistry ( <i>spring only</i> ) or Physical Chemistry: Quantum Mechanics & Molecular Spectroscopy ( <i>fall only</i> ) or Physical Chemistry: Thermodynamics and Kinetics ( <i>spring only</i> )	3	
	CHEM 4911	Chemistry Capstone	3	
	Electives	Complete 6 hours of Upper-Division (3000+ Level) Chemistry Electives. Up to 6 hours may be from CHEM 9499.	6	
	<b>Auxiliary Requirements</b>			
	BIOL 1350	General Biology II: Introduction to the Cell	3	
	MATH 1330	Calculus for Life Sciences	4	
	PES 1010	Physics for Life Science I - Algebra Based	4	
PES 1150	General Physics Lab I - Algebra Based	1		
PES 1020	Physics For Life Science II – Algebra Based	4		
PES 2150	Physics Lab II - Algebra Based	1		

## Pre-Health/Interdisciplinary Sciences Option

### General Education and Elective Requirements

<b>Core Writing Requirement</b> (6 hours)	<ul style="list-style-type: none"> <li>ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>)</li> <li>ENGL 1410</li> <li>Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit</li> </ul>																				
<b>Reasoning Skills</b>	<ul style="list-style-type: none"> <li>MATH 1330 (included in auxiliary requirements)</li> <li>CHEM 4001 (included in major requirements)</li> </ul>																				
<b>Core Humanities</b> (3 hours)	<ul style="list-style-type: none"> <li>HUM 3990                             <ul style="list-style-type: none"> <li>This course also fulfills Navigate and one Writing Intensive course.</li> </ul> </li> </ul>																				
<b>Natural Sciences Lab</b>	<ul style="list-style-type: none"> <li>PES 2150 (included in auxiliary requirements)</li> </ul>																				
<b>Oral Communication</b>	<ul style="list-style-type: none"> <li>CHEM 4911 (included in major requirements)</li> </ul>																				
<b>LAS Language other than English Requirement</b>	Complete two semesters of a language other than English equivalent to 1010 & 1020 with high school, transfer, placement exam, or UCCS coursework. <i>Courses taken to fulfill this requirement may also count toward Compass Curriculum Explore - Arts, Humanities and Cultures or general electives. See degree audit for details.</i>																				
<b>Compass Curriculum</b> (15 hours) <ul style="list-style-type: none"> <li>Explore and Navigate courses must be taken in departments other than the major.</li> <li>Writing Intensive, Inclusiveness, and Sustainability courses may count toward other requirements within the degree.</li> </ul>	<table border="1"> <thead> <tr> <th>Component</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td><b>Gateway Program Seminar</b></td> <td>GPS 1010</td> </tr> <tr> <td><b>Explore – Arts, Humanities and Cultures (2 courses)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Explore – Society, Behavior and Health (2 courses)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Explore – Physical and Natural World (2 courses)</b></td> <td> <ul style="list-style-type: none"> <li>BIOL 1350 (included in auxiliary requirements)</li> <li>MATH 1330 (included in auxiliary requirements)</li> </ul> </td> </tr> <tr> <td><b>Navigate</b></td> <td>HUM 3990 (included in LAS gen ed requirements)</td> </tr> <tr> <td><b>Summit</b></td> <td>CHEM 4911 (included in major requirements)</td> </tr> <tr> <td><b>Writing Intensive Courses (WIC) (2 courses)</b></td> <td> <ul style="list-style-type: none"> <li>HUM 3990 (included in LAS gen ed requirements)</li> <li>See Degree Audit</li> </ul> </td> </tr> <tr> <td><b>Inclusiveness (2 courses: 1 Global and 1 Local)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Sustainability</b></td> <td>See Degree Audit</td> </tr> </tbody> </table>	Component	Course	<b>Gateway Program Seminar</b>	GPS 1010	<b>Explore – Arts, Humanities and Cultures (2 courses)</b>	See Degree Audit	<b>Explore – Society, Behavior and Health (2 courses)</b>	See Degree Audit	<b>Explore – Physical and Natural World (2 courses)</b>	<ul style="list-style-type: none"> <li>BIOL 1350 (included in auxiliary requirements)</li> <li>MATH 1330 (included in auxiliary requirements)</li> </ul>	<b>Navigate</b>	HUM 3990 (included in LAS gen ed requirements)	<b>Summit</b>	CHEM 4911 (included in major requirements)	<b>Writing Intensive Courses (WIC) (2 courses)</b>	<ul style="list-style-type: none"> <li>HUM 3990 (included in LAS gen ed requirements)</li> <li>See Degree Audit</li> </ul>	<b>Inclusiveness (2 courses: 1 Global and 1 Local)</b>	See Degree Audit	<b>Sustainability</b>	See Degree Audit
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<b>General Electives</b> (42 hours)	Complete additional courses to meet total and upper-division requirements for your degree program.																				

### FOUR-YEAR DEGREE PLAN

Please note that this is an *example* degree program and your program may vary. **Students are responsible for completing all course prerequisites.**

Year One	✓	FALL	Hours	✓	SPRING	Hours
			ENGL 1310	3		ENGL 1410
		CHEM 1401/1402	5		CHEM 1511/1513	5
		MATH 1330	4		BIOL 1350	3
		GPS 1010	3		Explore – Arts, Humanities & Cultures Course	3
		<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>14</b>

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 3101/3102	4		CHEM 3111/3112
		PES 1010/1150	5		PES 1020/2150	5
		Explore – Society, Behavior and Health Course	3		Explore – Society, Behavior and Health Course	3
		Explore – Arts, Humanities & Cultures Course	3		General Elective ( <i>Writing Intensive</i> )	3
		<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4001/4002	4		CHEM 4101 ( <i>fall only</i> ) or 4701 or 4111 ( <i>spring only</i> )
		CHEM 4211	3		HUM 3990	3
		General Elective	3		General Elective	3
		General Elective ( <i>Sustainability</i> )	3		General Elective	3
		General Elective ( <i>Inclusiveness</i> )	3		General Elective ( <i>Inclusiveness</i> )	3
		<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15</b>

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4911	3		UD CHEM Elective
		Upper Division (UD) CHEM Elective	3		UD General Elective	3
		UD General Elective	3		UD General Elective	3
		General Elective	3		UD General Elective	3
		General Elective	3		UD General Elective	3
		<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>