

# 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/advising)

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### 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/chemistry)

Major Requirements			
<b>BA Chemistry Major</b> (37 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>	Course/Area	Course Title	Credit Hours
	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	Biophysical Chemistry	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 4904 and 4905.	6
	Auxiliary Requirements		
	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

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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) <b>or</b> PORT 4000 (1 credit) <b>or</b> 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>	<b>Component</b>	<b>Course</b>
	<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)</b>	See Degree Audit
	<b>Sustainability</b>	See Degree Audit
<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	3
		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>	15		<b>TOTAL</b>	14

Year Two	✓	FALL	Hours	✓	SPRING	Hours
		CHEM 3101/3102	4		CHEM 3111/3112	4
		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>	15		<b>TOTAL</b>	15

Year Three	✓	FALL	Hours	✓	SPRING	Hours
		CHEM 4001/4002	4		CHEM 4701	3
		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>	16		<b>TOTAL</b>	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
		CHEM 4911	3		UD CHEM Elective	3
		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>	15		<b>TOTAL</b>	15