

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: www.uccs.edu/advising

Connect With Your Advisor

Current UCCS Students

- Appointments: www.uccs.edu/advising/current-students

- Drop In Advising: Most Wednesdays, 1:00pm - 4:00pm

Prospective Students: 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: Last 30 credit hours of 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
- 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 \(uccs.edu\)](#)

Major Requirements				
BA Chemistry Major (37 hours)	Course/Area	Course Title	Credit Hours	
<ul style="list-style-type: none"> • Requires a minimum of 37 credit hours of CHEM course work, and an additional 17 hours of auxiliary coursework. • Requires a minimum of 27 credit hours of upper-division (3000-4000 level) CHEM course work. 	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 Principles	3	
	CHEM 4701	Biophysical Chemistry	3	
	CHEM 4911	Chemistry Capstone	3	
	Electives	<i>Complete 6 hours of Upper-Division (3000+ Level) Chemistry Electives. Up to 6 hours may be from CHEM 4904 and 4905.</i>	6	
	Auxiliary Requirements			
	BIOL 1350	General Biology II: Introduction to the Cell	3	
	MATH 1350	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	4		
PES 2150	Physics Lab II - Algebra Based	1		

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General Education and Elective Requirements																					
Core Writing Requirement (6 hours)	<ul style="list-style-type: none"> ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>) ENGL 1410 PORT 3000 (0 Credits) – Writing Portfolio 																				
Reasoning Skills (7 hours)	<ul style="list-style-type: none"> MATH 1330 (included in auxiliary requirements) CHEM 4001 (included in major requirements) 																				
Area Requirements (28 hours) <ul style="list-style-type: none"> Maximum 2 courses from any one discipline may be applied to the area requirements Courses may not be taken pass/fail 	<ul style="list-style-type: none"> Humanities – 9 credit hours of which 3 credits must be HUM 3990. Social Sciences – 9 credit hours Natural Sciences – 10 credit hours as listed in auxiliary requirements - PES 1010, PES 1020, PES 1150, PES 2150 <p>NOTE: Cannot select courses from primary major courses for area requirements.</p>																				
Oral Communication, Cultural Diversity, and Global Awareness Requirements	One course from each list (see degree audit). <i>All courses that fulfill these requirements may also count towards other general education or major requirements.</i>																				
Compass Curriculum (9 hours) <ul style="list-style-type: none"> Explore and Navigate courses must be outside major and area requirements Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree 	<table border="1"> <thead> <tr> <th>Component</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td>Gateway</td> <td>GPS 1010</td> </tr> <tr> <td>Explore – Arts, Humanities and Cultures</td> <td>See Degree Audit</td> </tr> <tr> <td>Explore – Society, Behavior and Health</td> <td>See Degree Audit</td> </tr> <tr> <td>Explore – Physical and Natural World</td> <td>BIOL 1350 (included in auxiliary requirements)</td> </tr> <tr> <td>Navigate</td> <td>HUM 3990 (included in LAS area requirements)</td> </tr> <tr> <td>Summit</td> <td>CHEM 4911 (included in major requirements)</td> </tr> <tr> <td>Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i></td> <td> <ul style="list-style-type: none"> HUM 3990 (included in LAS area requirements) See Degree Audit </td> </tr> <tr> <td>Inclusiveness</td> <td>See Degree Audit</td> </tr> <tr> <td>Sustainability</td> <td>See Degree Audit</td> </tr> </tbody> </table>	Component	Course	Gateway	GPS 1010	Explore – Arts, Humanities and Cultures	See Degree Audit	Explore – Society, Behavior and Health	See Degree Audit	Explore – Physical and Natural World	BIOL 1350 (included in auxiliary requirements)	Navigate	HUM 3990 (included in LAS area requirements)	Summit	CHEM 4911 (included in major requirements)	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> HUM 3990 (included in LAS area requirements) See Degree Audit 	Inclusiveness	See Degree Audit	Sustainability	See Degree Audit
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General Electives (33 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
			GPS 1010	3		Explore – Arts, Humanities & Cultures Course
		ENGL 1310	3		ENGL 1410	3
		CHEM 1401/1402	5		CHEM 1511/1513	5
		MATH 1330	4		BIOL 1350	3
		TOTAL	15		TOTAL	14

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		Humanities Elective	3
		General Elective (<i>Global Awareness</i>)	3		General Elective (<i>Writing Intensive</i>)	3
		TOTAL	15		TOTAL	15

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4001/4002	4		CHEM 4701
		CHEM 4211	3		HUM 3990	3
		Humanities Elective	3		Social Science Elective	3
		Social Science Elective	3		Social Science Elective	3
		General Elective (<i>Inclusiveness</i>)	3		General Elective (<i>Cultural Diversity</i>)	3
		TOTAL	16		TOTAL	15

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