

ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208

Phone: 719.255.3260

Website: www.uccs.edu/advising

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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

1. 120 credit hours
2. 45 upper-division credit hours (3000-4999 level)
3. 2.0 CU cumulative GPA
4. 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:

1. All academic policies set forth by the University, College, and academic department in the UCCS Catalog: catalog.uccs.edu
2. 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.

MAJOR INFORMATION

Chemistry is the science about substances, their composition, structure, properties, and interactions. Chemistry helps explain the world and its workings and plays an important role in our lives. Chemists have contributed a great deal to technical advances of society and have made many important contributions to modern life. Everything is made from one or more chemical elements that occur in nature. Chemists use different kinds of chemical processes to make the elements found in nature more useful, and they create countless products that make our lives healthier, easier, and more enjoyable. There are as many specialties as there are areas of application of chemical principles.

Major Requirements				
BS Chemistry Major (56 hours)	Course/Area	Course Title	Credit Hours	
<ul style="list-style-type: none"> • Requires a minimum of 56 credit hours of CHEM course work • Requires a minimum of 16 credit hours of upper-division (3000-4999 level) CHEM course work. • All CHEM courses must have a grade of "C" or better. 	CHEM 1401/1402	General Chemistry I and Lab	5	
	CHEM 1511/1513	General Chemistry for Majors II and Lab	5	
	CHEM 3201/3203	Organic Chemistry for Majors I and Lab	5	
	CHEM 3211/3213	Organic Chemistry for Majors II and Lab	5	
	CHEM 4001/4002	Analytical Chemistry I and Lab	4	
	CHEM 4011/4012	Practical Instrumental Analysis and Lab	5	
	CHEM 4101	Physical Chemistry: Quantum Mechanics and Molecular Spectroscopy	3	
	CHEM 4102	Experimental Physical Chemistry: Quantum Mechanics and Molecular Spectroscopy	1	
	CHEM 4111	Physical Chemistry: Thermodynamics and Kinetics	3	
	CHEM 4112	Experimental Physical Chemistry: Thermodynamics and Kinetics	1	
	CHEM 4211	Biochemistry Principles	3	
	CHEM 4301	Inorganic Chemistry I	3	
	CHEM 4311	Inorganic Chemistry II	3	
	CHEM 4312	Advanced Inorganic Chemistry Lab	1	
	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 4904/4905.</i>		6
	Auxiliary Requirements			
	BIOL 1350	General Biology II		3
	MATH 1350	Calculus I		4
MATH 1360	Calculus II		4	
MATH 2350	Calculus III		4	
PES 1110/1160	General Physics I and Lab		5	
PES 1120/2160	General Physics II and Lab		5	
PES 2130	General Physics III		3	

General Education and Elective Requirements																					
Composition (6 hours)	<ol style="list-style-type: none"> ENGL 1310 ENGL 1410 PORT 3000 (0 Credits) – Writing Portfolio 																				
Reasoning Skills (4 hours)	<ol style="list-style-type: none"> MATH 1350 CHEM 4001 																				
Area Requirements (27 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 	<ol style="list-style-type: none"> Humanities – 9 credit hours of which 3 credits must be HUM3990. Social Sciences – 9 credit hours Natural Sciences – as listed in course requirements PES 1110, PES 1120, PES 1160, PES 2160 <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 (12 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</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> <ol style="list-style-type: none"> HUM 3990 (included in LAS area requirements) CHEM 1513 (included in major requirements) </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	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>	<ol style="list-style-type: none"> HUM 3990 (included in LAS area requirements) CHEM 1513 (included in major requirements) 	Inclusiveness	See Degree Audit	Sustainability	See Degree Audit
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Sustainability	See Degree Audit																				
General Electives (3 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 1350	4		MATH 1360	4
		GPS 1010	3		Explore – Arts, Humanities & Cultures Course	3
		TOTAL	15		TOTAL	15

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 3201/3203	5		CHEM 3211/3213
		MATH 2350	4		PES 1120/2160	5
		PES 1110/1160	5		BIOL 1350	3
		Explore – Society, Behavior and Health Course	3		General Electives	3
		TOTAL	17		TOTAL	16

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4001/4002	4		CHEM 4011/4012
		CHEM 4101	3		CHEM 4111	3
		CHEM 4102	1		CHEM 4112	1
		CHEM 4211	3		PES 2130	3
		HUM 3990	3		Social Science Elective	3
		TOTAL	14		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4301	3		CHEM 4311
		CHEM 4911	3		CHEM 4312	1
		Upper-Division (UD) CHEM Elective	3		UD CHEM Elective	3
		Humanities Elective	3		Humanities Elective	3
		Social Science Elective	3		Social Science Elective	3
		TOTAL	15		TOTAL	13