

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. Biochemistry is the study of the structure, composition, and chemical reactions of substances in living systems.

Major Requirements				
Biochemistry Major (58 hours)	Course/Area	Course Title	Credit Hours	
<ul style="list-style-type: none"> • Requires a minimum of 58 credit hours of CHEM course work • Requires a minimum of 18 credit hours of upper-division (3000-4999 level) CHEM course work. • Must maintain a minimum 2.0 major GPA (all CHEM courses) to graduate. • All auxiliary requirements must be completed in addition to the required major courses. 	CHEM 1401/1402	General Chemistry I and Lab	5	
	CHEM 1511/1513	General Chemistry for Majors II and Lab	5	
	CHEM 2201	Introduction to Biochemical Principles	3	
	CHEM 3101/3102	Organic Chemistry I and Lab I	4	
	CHEM 3111/3112	Organic Chemistry II and Lab I	4	
	CHEM 4001/4002	Analytical Chemistry and Lab	4	
	CHEM 4221	Biochemistry I	3	
	CHEM 4222	Biochemistry Laboratory	3	
	CHEM 4231	Biochemistry II	3	
	CHEM 4232	Advanced Techniques in Biochemistry	3	
	CHEM 4502	Bioanalytical Techniques		
	CHEM 4261	Advanced Biochemistry	3	
	CHEM 4701	Biophysical Chemistry (spring only)	3	
	CHEM 4921	Biochemistry Capstone	3	
	Electives	Complete 12 hours of upper-division (3000+ level) Chemistry Electives. Up to 6 hours may be from CHEM 4904/4905.		12
	Auxiliary Requirements			
BIOL 1350	General Biology II: Intro to the Cell		3	
MATH 1330	Calculus for Life Sciences		4	
PES 1110/1160	General Physics I and Lab		5	
PES 1120/2160	General Physics II and Lab		5	

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 (3 hours)	<ol style="list-style-type: none"> MATH 1330 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 – PES 1110, PES 1120, PES 1160, PES 2160 <p>NOTE: Cannot select courses from primary major courses for area requirements.</p>	
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 	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 4921 (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	
General Electives (12 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
		MATH 1330	4		CHEM 1511/1513	5
		CHEM 1401/1402	5		BIOL 1350	3
		GPS 1010	3		Explore – Society, Behavior and Health Course	3
		TOTAL	15		TOTAL	14

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 3101/3102	4		CHEM 3111/3112
		PES 1110/1160	5		PES 1120/2160	5
		Explore – Arts, Humanities & Cultures Course	3		CHEM 2201	3
		Social Science Elective	3		Humanities Elective	3
		TOTAL	15		TOTAL	15

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4001/4002	4		CHEM 4222
		CHEM 4221	3		CHEM 4231	3
		HUM 3990	3		CHEM 4701	3
		UD (Upper-Division) CHEM Elective	3		UD CHEM Elective	3
		Social Science Elective	3		Humanities Elective	3
		TOTAL	16		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4232 or CHEM 4502	3		CHEM 4261
		CHEM 4921	3		UD CHEM Elective	3
		UD CHEM Elective	3		General Elective	3
		Social Science Elective	3		General Elective	3
		General Elective	3		General Elective	3
		TOTAL	15		TOTAL	15