

ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208

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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 (49 hours)	Course/Area	Course Title	Credit Hours	
<ul style="list-style-type: none"> • Requires a minimum of 49 credit hours of CHEM course work • Requires a minimum of 16 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	5	
	CHEM 1511/1513	General Chemistry for Majors II and Lab II	5	
	CHEM 2201	Introduction to Biochemical Principles	3	
	CHEM 3101/CHEM 3102	Organic Chemistry I and Lab I	4	
	CHEM 3111/CHEM 3112	Organic Chemistry II and Lab II	4	
	CHEM 4001/CHEM 4002	Analytical Chemistry and Lab	4	
	CHEM 4201	Current Perspectives in Science and Medicine	3	
	CHEM 4221	Biochemistry I	3	
	CHEM 4222	Biochemistry Laboratory	3	
	CHEM 4231	Biochemistry II	3	
	CHEM 4701	Biophysical Chemistry (spring only)	3	
	CHEM 4921	Biochemistry 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 1300/1310	General Biology: Organismic Biology and Lab		4
	BIOL 1350/1360	General Biology: Introduction to the Cell and Lab		4
	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	
PHIL 3130 OR PHIL 3160	Biomedical Ethics Philosophical Issues in Death & Dying		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 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 – ENGL 1500, HUM3990, PHIL 3130 or 3160 Social Sciences – 9 credit hours - PSY 1000, SOC 1110 and one other Natural Sciences – BIOL 1300, BIOL 1310, PES 1110, PES 1120 <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 	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 (16 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
		BIOL 1300/1310	4		BIOL 1350/1360	4
		GPS 1010	3		MATH 1330	4
		TOTAL	15		TOTAL	16

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 3101/3102	4		CHEM 3111/3112
		PES 1110/1160	5		PES 1120/2160	5
		PSY 1000	3		CHEM 2201	3
		Explore – Arts, Humanities & Cultures Course	3		ENGL 1500	3
		TOTAL	15		TOTAL	15

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4001/4002	4		CHEM 4201
		CHEM 4221	3		CHEM 4231	3
		Explore – Society, Behavior and Health Course	3		CHEM 4222	3
		General Elective	3		CHEM 4701	3
					General Elective	3
		TOTAL	13		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			CHEM 4921	3		UD (Upper-Division) CHEM Elective
		PHIL 3130 OR PHIL 3160	3		UD CHEM Elective	4
		SOC 1110	4		Social Science Elective	2
		General Elective	3		General Elective	3
		General Elective	3		General Elective	1
		TOTAL	16		TOTAL	13