CHEMISTRY B.I.

University of Colorado Colorado Springs

ACADEMIC ADVISING

Partnering with students to successfully navigate college
Location: Main Hall 208
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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
- 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			
BI Chemistry Major (36 hours) • Requires a minimum of 36 credit hours of CHEM course work and an additional 12 hours of auxiliary coursework. • Requires a minimum of 16 credit hours of upper-division (3000+ level) CHEM course work. • All CHEM and auxiliary courses must have a grade of "C" or better.	**Course/Area**	**Course Title**	**Credit Hours**
	CHEM 1401/1402	General Chemistry I and Lab I	5
	CHEM 1511/1513	General Chemistry II for Majors and Lab II	5
	CHEM 3201/3203	Organic Chemistry for Majors I and Lab I	5
	CHEM 3211/3213	Organic Chemistry for Majors II and Lab II	5
	CHEM 4001/4002	Analytical Chemistry and Lab	4
	CHEM 4211	Biochemistry	3
	CHEM 4101 or CHEM 4111	Physical Chemistry: Quantum Mechanics & Molecular Spectroscopy *(fall only)* or Physical Chemistry: Thermodynamics and Kinetics *(spring only)*	3
	CHEM UD Electives	*Complete 6 hours of Upper Division (3000+ level) Chemistry Electives. Up to 6 hours may be from CHEM 9499.*	6
	Auxiliary Requirements		
	BIOL 1350	General Biology II: Introduction to the Cell	3
	MATH 1330	Calculus for Life Science	4
	PES 1110/1160	General Physics I and Lab	5
BI Innovation Core (24 hours)	INOV 1000 **or** INOV 1001	Introduction to Entrepreneurship **or** Social Entrepreneurship	3
	INOV 1010 **or** INOV 1011	The Innovation Process **or** Social Innovation	3
	INOV 2010	Innovation Team: Analyze and Report	3
	INOV 2100	Technical Writing, Proposals, and Presentations	3
	INOV 2500	Business Law and Innovation	3
	INOV 3010	Innovation Team: Research and Execute	3
	INOV 4010	Innovation Team: Design and Lead	3
	INOV 4500	Entrepreneurship and Strategy	3
BI Cross Discipline Core (15 hours)	*Complete one of the Cross-Discipline Cores listed below. Each Cross-Discipline Core consists of 15 credit hours. See the degree audit or the Bachelor of Innovation page in the Academic Catalog for specific course information.* **Business** **Engineering Technology** **Globalization** **Inclusive Education** **Custom Core (for Veterans and Transfer students only)**		

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General Education and Elective Requirements

Core Writing Requirement (3 hours)	• ENGL 1310 ENGL 1310, 1308, or 1305 *(Students choosing ENGL 1305 must complete ENGL 1300 first.)* • Writing Portfolio – PORT 3000 (0 credits) **or** PORT 4000 (1 credit) **or** alternative – See Degree Audit
Reasoning Skills	• MATH 1330 (included in auxiliary requirements) • CHEM 4001 (included in major requirements)
Core Humanities (3 hours)	• HUM 3990 o This course also fulfills Navigate and one Writing Intensive course.
Natural Sciences Lab	• PES 1160 (included in auxiliary requirements)
Oral Communication	• See Degree Audit o This course may also fulfill general education or major requirements.
LAS Language other than English Requirement	Complete two semesters of a language other than English equivalent to 1010 & 1020 with high school, transfer, placement exam, or UCCS coursework. *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.*

Compass Curriculum (9 hours) • Explore and Navigate courses must be taken in departments other than the major. • Writing Intensive, Inclusiveness, and Sustainability courses may count toward other requirements within the degree.	Component	Course
	Gateway Program Seminar	GPS 1010
	Explore – Arts, Humanities and Cultures *(2 courses)*	• INOV 1010 **or** INOV 1011 (included in BI Core) • See Degree Audit
	Explore – Society, Behavior and Health *(2 courses)*	• INOV 1000 **or** INOV 1001 (included in BI Core) • See Degree Audit
	Explore – Physical and Natural World *(2 courses)*	• BIOL 1350 (included in auxiliary requirements) • PES 1110 (included in auxiliary requirements)
	Navigate	INOV 3010 (included in BI Core)
	Summit	INOV 4500 (included in BI Core)
	Writing Intensive Courses (WIC) *(2 courses)*	• INOV 2010 (included in BI Core) • INOV 3010 (included in BI Core)
	Inclusiveness *(2 courses: 1 Local and 1 Global)*	• Local: INOV 1010 **or** INOV 1011 (included in BI Core) • Global: See Degree Audit
	Sustainability	INOV 1000 **or** INOV 1001 (included in BI Core)
General Electives (18 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
	CHEM 1401/1402	5		CHEM 1511/1513	5
	INOV 1000 **or** INOV 1001	3		INOV 1010 **or** INOV 1011	3
	MATH 1330	3		PES 1110/1160	5
	GPS 1010	4		ENGL 1310	3
	TOTAL	15		**TOTAL**	16

Year Two

√	FALL	Hours	√	SPRING	Hours
	CHEM 3201/3203	5		CHEM 3211/3213	5
	BIOL 1350	3		INOV 2100	3
	INOV 2010	3		Cross-Discipline Core Course	3
	INOV 2500	3		Explore – Social, Behavior, and Health course	3
	TOTAL	14		**TOTAL**	14

Year Three

√	FALL	Hours	√	SPRING	Hours
	CHEM 4001/4002	4		CHEM 4211	3
	INOV 3010	3		Upper-Division (UD) CHEM Elective	3
	HUM 3990	3		Cross-Discipline Core Course	3
	Cross-Discipline Core Course	3		General Elective	3
	Explore – Arts, Humanities and Cultures course	3		General Elective *(Oral Communication)*	3
	TOTAL	16		**TOTAL**	15

Year Four

√	FALL	Hours	√	SPRING	Hours
	CHEM 4101 *(fall only)* or CHEM 4111 *(spring only)*	3		UD CHEM Elective	3
	INOV 4010	3		INOV 4500	3
	Cross-Discipline Core Course	3		Cross-Discipline Core Course	3
	UD General Elective *(Sustainability)*	3		UD General Elective	3
	General Elective *(Inclusiveness)*	3		UD General Elective	3
	TOTAL	15		**TOTAL**	15