CHEMISTRY MINOR

Introduction

Please click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/ schools-colleges-departments/college-liberal-arts-sciences/chemistry/) to see Chemistry department information.

The objective of the chemistry minor is to provide broad introductory course work and laboratory experience to science majors without the more technical mathematical and chemical prerequisites required of the chemistry major. The chemistry minor is open to all CLAS students and should prove beneficial for science majors, pre-professional health science majors and students seeking science education certification.

These program requirements are subject to periodic revision by the academic department, and the College of Liberal Arts and Sciences reserves the right to make exceptions and substitutions as judged necessary in individual cases. Therefore, the College strongly urges students to consult regularly with their major, minor and CLAS advisors to confirm the best plans of study before finalizing them.

Program Delivery

· This is an on-campus program.

Declaring This Minor

- Click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/ schools-colleges-departments/college-liberal-arts-sciences/ #policiestext) to go to information about declaring a major/minor.
- To register your minor in chemistry, please visit the CLAS advising office in NC 1130. After establishing your minor status, you are encouraged to meet with the chemistry minor advisor, Dr. Priscilla Burrow. (priscilla.burrow@ucdenver.edu)

General Requirements

Students must satisfy all requirements as outlined below and by the department offering the minor.

 Click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/ academic-policies-procedures/) for information about Academic Policies

Program Requirements

- 1. Students must complete a minimum of 24 semester hours of chemistry courses.
- 2. Students must complete a minimum of 15 upper division level (3000level and above) CHEM credit hours.
- 3. Students must earn a minimum grade of C- (1.7) in all courses that apply to the minor and must achieve a minimum cumulative minor GPA of 2.0. Courses taken using P+/P/F or S/U grading cannot apply to minor requirements.
- 4. Students must complete a minimum of nine credit hours with CU Denver faculty chosen from the approved course lists.

Program Restrictions, Allowances and Recommendations

1. All courses applied to the chemistry minor need to be taken within ten years of the graduation date with the

exception of General Chemistry I Lecture CHEM 2031 General Chemistry I or CHEM 2081 Honors General Chemistry I and Laboratory CHEM 2038 General Chemistry Laboratory I or CHEM 2088 Honors General Chemistry I Laboratory and General Chemistry II Lecture CHEM 2061 General Chemistry II or CHEM 2091 Honors General Chemistry II Lecture and Laboratory CHEM 2068 General Chemistry Laboratory II or CHEM 2098 Honors General Chemistry II Laboratory II or CHEM 2098 Honors General Chemistry II Laboratory. In the event that the student would like to apply for expired credit for Organic I Lecture CHEM 3481 Majors Organic Chemistry I, the student will need to test at the 50th percentile on the ACS Standardized Exam for Organic Chemistry I.

 Only one biochemistry course may count towards the Chemistry minor. Non-majors wishing to focus in biochemistry should consult the requirements for the Biochemistry Minor (http:// catalog.ucdenver.edu/cu-denver/undergraduate/schools-collegesdepartments/college-liberal-arts-sciences/chemistry/biochemistryminor/) program.

Code	Title	Hours	
Complete all of the following required courses: 20			
CHEM 2031	General Chemistry I		
or CHEM 20	SMajors General Chemistry I		
CHEM 2038	General Chemistry Laboratory I		
or CHEM 20	39 Jajors General Chemistry I Laboratory		
CHEM 2061	General Chemistry II		
or CHEM 20	Majors General Chemistry II		
CHEM 2068	General Chemistry Laboratory II		
or CHEM 20	06991ajors General Chemistry II Laboratory		
CHEM 3011	Inorganic Chemistry		
or CHEM 31	1Analytical Chemistry		
CHEM 3411	Organic Chemistry I		
or CHEM 34	18Majors Organic Chemistry I		
CHEM 3421	Organic Chemistry II		
or CHEM 34	Majors Organic Chemistry II		
Complete one of the	he following upper division laboratory courses:	1	
CHEM 3018	Inorganic Chemistry Laboratory		
CHEM 3118	Analytical Chemistry Laboratory		
CHEM 3418	Organic Chemistry Lab I		
or CHEM 34	I{Majors Organic Chemistry Laboratory I		
CHEM 4828	Biochemistry Lab		
Complete three credit hours from the following upper division elective courses:			
CHEM 3810	Biochemistry		
CHEM 4010	Advanced Inorganic Chemistry		
CHEM 4110	Advanced Analytical Chemistry		
CHEM 4121	Instrumental Analysis		
CHEM 4221	Practical Applications of Spectroscopy		
CHEM 4421	Cannabis Chemistry		
CHEM 4510	Computational Chemistry		
CHEM 4511	Physical Chemistry: Thermodynamics and Kinet	ics	
CHEM 4521	Physical Chemistry: Quantum and Spectroscopy	,	
CHEM 4530	Advanced Physical Chemistry		
CHEM 4630 & CHEM 4580	Programming for Data Analysis in the Physical Sciences		
	and Molecular Informatics		

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CHEM 4810	Environmental Chemistry General Biochemistry I	
CHEM 4815	Structural Biology of Neurodegenerative Diseases	
CHEM 4825	Biochemistry of Metabolic Disease	
CHEM 4835	Biochemistry of Gene Regulation and Cancer	
CHEM 4840	Independent Study: Chem ¹	
CHEM 4860	Bioinorganic Chemistry: Bioinorganic compounds in medicine	
CHEM 4880	Directed Research ¹	
CHEM 5010	Advanced Inorganic Chemistry	
CHEM 5110	Advanced Analytical Chemistry	
CHEM 5221	Practical Applications of Spectroscopy	
CHEM 5310	Advanced Organic Chemistry	
CHEM 5810	Graduate Biochemistry I	
Total Hours		24

¹ With prior permission from the Chemistry Minor Advisor.

To learn more about the Student Learning Outcomes for this program, please visit our website (https://clas.ucdenver.edu/chemistry/students/ undergraduate-programs/).