



# Colorado Community College to UNC Transfer Guide\*

## BS Chemistry, Forensic Science Concentration

2023-2024 Catalog

Degree Requirements – 120 credits

\*Guide for students transferring to the University of Northern Colorado from a Colorado community college for the purpose of completing a bachelor's degree. Courses marked as (**\*bold**) are UNC equivalent courses (if applicable) upon transfer. UNC Liberal Arts Curriculum (LAC) is waived with completion of AA/AS degree (if an AA/AS degree is not completed, additional liberal arts courses may be required). This guide is based on UNC degree and Colorado general education requirements from the above catalog term.

This four-year plan is a **recommended schedule** and not reflective of every student's individual academic context. Some requirements may vary by college. Some degrees have Statewide Transfer Articulation Agreements in place; please see <https://cdhe.colorado.gov/transfer-degrees> for details. This guide is for planning purposes only. Students should consult with their academic advisor for course sequence guidance.

COMMUNITY COLLEGE – 32 Credits			
YEAR 1 – FALL: 16 credits		YEAR 1 – SPRING: 16 credits	
CHE 1111 Gen Coll Chem I w/ Lab (GT-SC1) <b>CHEM 111/111L Prin of Chemistry I (LAC Natural &amp; Physical Sci.)</b>	5 credits	CHE 1112 Gen Coll Chem II w/ Lab (GT-SC1) <b>CHEM 112/112L Principles of Chemistry II</b>	5 credits
ENG 1021 English Composition I (GT-CO1) <b>ENG 122 College Composition (LAC Written Comm.-Recommended)</b>	3 credits	ENG 1022 English Composition I (GT-CO1) <b>*ENG 123 College Composition OR</b> SCI 291 <sup>3</sup> Scientific Writing (LAC Written Comm.)	3 credits
BIO 1111 Gen Coll Bio I w/ Lab <b>BIO 110 Biology: Atoms to Cells (LAC Natural &amp; Physical Sci.)</b>	5 credits	MAT 2410 Calculus I <sup>2</sup> (GT-MA1) <b>MATH 131 Calculus I (LAC Mathematics)</b>	5 credits
Liberal Arts Curriculum <sup>1</sup>	3 credits	Elective Course	3 credits
UNIVERSITY OF NORTHERN COLORADO – 88 Credits			
YEAR 2 – FALL: 16 credits		YEAR 2 – SPRING: 16 credits	
CHEM 331 Organic Chemistry I	4 credits	CHEM 332 Organic Chemistry II	4 credits
CHEM 331L Organic Chemistry I Lab	1 credit	CHEM 332L Organic Chemistry II Lab	1 credit
PHYS 220 Introductory Physics I (LAC Natural & Physical Sci.)	5 credits	PHYS 221 Introductory Physics II	5 credits
Minor Course	3 credits	Minor Courses	6 credits
Liberal Arts Curriculum	3 credits		
YEAR 3 – FALL: 14 credits		YEAR 3 – SPRING: 14 credits	
CHEM 321 Chemical Analysis	4 credits	CHEM 421 Instrumental Analysis or elective	4 credits
CHEM 381 Principles of Biochemistry	3 credits	CHEM 425 Forensic Chemistry	credits
CHEM 381L Principles of Biochemistry Lab	1 credit	Minor Course	3 credits
CHEM 441 Inorganic Chemistry I	3 credits	Liberal Arts Curriculum	3 credits
Minor Course	3 credits		
YEAR 4 – FALL: 14 credits		YEAR 4 – SPRING: 14 credits	
Research and/or Internship (CHEM 422/499) <sup>4</sup>	2 credits	CHEM 450 Survey of Physical Chemistry	3 credits
Elective Courses	9 credits	CHEM 450L Survey of Physical Chemistry Lab	1 credit
Liberal Arts Curriculum	3 credits	Minor Course	3 credits
		Liberal Arts Curriculum	3 credits
		Elective Courses	4 credits
		Chemistry Assessment Exam <sup>6</sup>	0 credits

Every UNC student must meet the following requirements in order to graduate with a bachelor's degree: earn a minimum of 120 semester credit hours; possess a minimum of a 2.00 cumulative grade point average; meet all degree requirements in the student's major field of study. Each major and/or concentration may have additional requirements necessary for graduation. Students must consult with their major advisor to receive information on any additional graduation requirements. View the [UNC Undergraduate Catalog](#) for current degree requirements.

### Contact Information –

Department: Department of Chemistry & Biochemistry

Website: [www.unco.edu/nhs/chemistry](http://www.unco.edu/nhs/chemistry)

Phone: 970-351-2559

Email: [chemistry@unco.edu](mailto:chemistry@unco.edu)

### Program Admission Requirements –

Academic Good Standing.

For information about admission to the University of Northern Colorado, please visit <https://www.unco.edu/admissions/>.

### Minor Required –

A minor in Criminology & Criminal Justice or Anthropology is required.

### Notes –

1. A total of 15 credits are required in Arts & Humanities (2 courses, minimum 3 credits each), History (1 course, minimum 3 credits), Social & Behavioral Sciences (1 course, minimum 3 credits), one additional course (minimum 3 credits) in Arts & Humanities or History or Social & Behavioral Sciences. You must also have U.S. Multicultural Studies (1 course, minimum 3 credits), International Studies (1 course, minimum 3 credits). Six total credits must be double counted.
2. Students who lack sufficient preparation in mathematics may need to start in MATH 124 College Algebra(4), MATH 125 Plane Trigonometry (3), or MATH 127 Elementary Functions (4). Consult your advisor.
3. With advisor approval, students can substitute ENG 123 for SCI 291 Scientific Writing (3).
4. A minimum of 2 credits in CHEM 422 Directed Studies (internship) or 2 credits in CHEM 499 Seminar and Research in Chemistry must be completed. Consult with your advisor about these options.
5. All students must take a chemistry major assessment exam prior to graduation.

This program prepares students to enter the field of forensic science by providing background courses in chemistry, physics, sociology, and criminal justice in addition to lab experiences in research or an internship.

Students completing this degree emphasis and wish to pursue graduate study in one of the areas of chemistry maybe required to complete additional course work depending on the entrance requirements of the specific graduate school. Students interested in obtaining ACS approval for this degree should take CHEM 442 and CHEM 443 to complete those requirements. See your advisor for additional recommended courses.

- A. The four-year plan described on the other side of this sheet is a suggested track for completing this major. You must meet with your advisor each semester to determine an appropriate plan.
- B. Upper-level courses are generally taught only one semester per year and are marked on the sheet as F (Fall) or S (Spring). In this plan courses are listed in order of required prerequisites first.
- C. Recommended electives include courses in statistics, sociology, criminal justice, anthropology, and additional courses in mathematics. Graduate level CHEM courses are recommended for juniors and seniors.
- D. Students majoring in chemistry must earn a grade of "C" or better (C- is not acceptable) in all courses having a CHEM prefix which count toward the major.