

Community College of Aurora/UNC Transfer Guide*

BS Chemistry, Forensic Science Emphasis

2021-2022 Catalog

Degree Requirements – 120 credits

*Guide for students transferring to the University of Northern Colorado for the purpose of completing a bachelor's degree. Courses marked as **(*bold)** are UNC equivalent courses (if applicable) upon transfer to UNC. UNC Liberal Arts Curriculum (LAC) is waived with completion of AA/AS degree which is not completed as part of this plan. (Note: The four-year plan below is a recommended schedule and not reflective of every student's individual academic context. We encourage each student to consult with their respective academic advisor for course sequence guidance.)

COMMUNITY COLLEGE OF AURORA – 32 Credits			
YEAR 1 – FALL: 16 credits		YEAR 1 – SPRING: 16 credits	
CHE 111 Gen Coll Chem I w/ Lab CHEM 111/111L Prin of Chemistry I (LAC Natural & Physical Sci.)	5 credits	CHE 112 Gen Coll Chem II w/ Lab CHEM 112/112L Principles of Chemistry II	5 credits
ENG 121 English Composition I ENG 122 College Composition (LAC Written Comm.-Recommended)	3 credits	ENG 122 English Composition II SCI 291³ Scientific Writing (LAC Written Comm.)	3 credits
BIO 111 Gen Coll Bio I w/ Lab BIO 110 Biology: Atoms to Cells (LAC Natural & Physical Sci.)	5 credits	MAT 201 Calculus I ² MATH 131 Calculus I (LAC Mathematics)	5 credits
Liberal Arts Curriculum ¹	3 credits	Elective Course	3 credits
UNIVERSITY OF NORTHERN COLORADO – 88 Credits			
YEAR 2 – FALL: 16 credits		YEAR 2 – SPRING: 16 credits	
CHEM 331/331L Organic Chemistry I	4/1 credits	CHEM 332/332L Organic Chemistry II	4/1 credits
PHYS 220 Introductory Physics I (LAC Area 6)	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 (F)	4 credits	CHEM 421 Instrumental Analysis (S)	4 credits
CHEM 381/381L Principles of Biochemistry (F)	3/1 credits	CHEM 425 Forensic Chemistry (S)	3/1 credits
CHEM 441 Inorganic Chemistry I (F)	3 credits	Minor Course	3 credits
Minor Course	3 credits	Liberal Arts Curriculum	3 credits
YEAR 4 – FALL: 14 credits		YEAR 4 – SPRING: 14 credits	
Minor Course	3 credits	CHEM 450/450L Survey of Physical Chemistry (S)	3/1 credits
Research and/or Internship (CHEM 422/499) ⁴	2 credits	Minor Course	3 credits
Elective Courses	6 credits	Liberal Arts Curriculum	3 credits
Liberal Arts Curriculum	3 credits	Elective Courses	4 credits
		Chemistry Assessment Exam ⁵	0 credits

This four-year plan is a recommended schedule to complete your bachelor's degree in 4 years. 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 emphasis may have additional requirements necessary for graduation. **Students must consult with their major advisor to receive information on any additional graduation requirements.**

Program Admission Requirements –

No separate admission requirement.

Minor Required –

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

Contact Information –

Department of Chemistry & Biochemistry
Ross Hall Room 3480, 970-351-2559
<http://www.unco.edu/nhs/chemistry-biochemistry/>

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.

Notes –

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 may be 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.