

Colorado Community College to UNC Transfer Guide*

BS Chemistry-Licensure: Science (Grades 7-12)

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 <u>https://cdhe.colorado.gov/transfer-degrees</u> for details. This guide is for planning purposes only. Students should consult with their academic advisor for course sequence guidance.

| COMMUNITY COLLEGE – 30 Credits | | | | | |
|---|---|--|-------------|--|--|
| YEAR 1 – FALL: 16 credits | | YEAR 1 – SPRING: 16 credits | | | |
| CHE 1111 Gen Coll Chem I w/ Lab (GT-SC1) | 5 credits | CHE 1112 Gen Coll Chem II w/ Lab (GT-SC1) | 5 credits | | |
| CHEM 111/111L Prin of Chemistry I (LAC Natural & Physical Sci.) | | CHEM 112/112L Principles of Chemistry II | | | |
| ENG 1021 English Composition I (GT-CO1) | 3 credits | BIO 1112 Gen Coll Bio II w/ Lab (GT-SC1) | 5 crodits | | |
| ENG 122 College Composition (LAC Written CommRecommended) | | BIO 111 Biology: Organisms to Ecosystems | 5 creats | | |
| BIO 1111 Gen Coll Bio I w/ Lab (GT-SC1) | 4 credits | | | | |
| BIO 110 Biology: Atoms to Cells (LAC Natural & Physical Sci.) | | Liberal Arts Curriculum ¹ | 6 credits | | |
| AST 1110 or MET 1050 | | | | | |
| AST 100 or MET 205 (LAC Natural & Physical Sci Recommended) | 4 credits | | | | |
| UNIVERSITY OF NO | UNIVERSITY OF NORTHERN COLORADO – 89-90 Credits | | | | |
| YEAR 2 – FALL: 14 credits | | YEAR 2 – SPRING: 15 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 | | |
| MATH 131 Calculus I (LAC Mathematics) | 4 credits | STEP 161 Observ. & Analysis of Sec. Teaching I ² | 2 credits | | |
| | | EDF 290 Foundations of Education | 3 credits | | |
| YEAR 3 – FALL: 15 credits | | YEAR 3 – SPRING: 16-17 credits | | | |
| CHEM 321 Chemical Analysis | 4 credits | SCI 291 Scientific Writing (LAC Written Comm.) | 3 credits | | |
| STEP 262 Observ. & Analysis of Sec. Teaching II ³ | 2 credits | CHEM 360 or ENST 235 Chemistry and the Environment ⁵ | 2-3 credits | | |
| EDSE 360 Adaptations/Modifications & Integrat. | 3 credits | CHEM 450 Survey of Physical Chemistry | 3 credits | | |
| PSY 349 Ed. Psychology for Secondary Teachers | 3 credits | CHEM 450L Survey of Physical Chemistry Lab | 1 credit | | |
| CHEM 441 Inorganic Chemistry I | 3 credits | GEOL 201 Physical Geology | 4 credits | | |
| | | Liberal Arts Curriculum | 3 credits | | |
| YEAR 4 – FALL: 17 credits | | YEAR 4 – SPRING: 12 credits | | | |
| SCED 441 Methods Teach Sec. School Science (F) | 3 credits | STEP 464 Secondary Student Teaching | 12 credits | | |
| STEP 363 Clinical Experience-Secondary ⁴ | 2 credits | Chemistry Assessment Exam ⁶ | 0 credits | | |
| EDRD 340 Secondary Content Area Literacy | 3 credits | | | | |

| Liberal Arts Curriculum | 6 credits | |
|--|-----------|--|
| ET 449 Integrating Technologies into Secondary | 3 credits | |
| Education Pedagogy | | |

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 <u>UNC Undergraduate Catalog</u> for current degree requirements.

Contact Information –

Department: Department of Chemistry & Biochemistry Website: <u>www.unco.edu/nhs/chemistry</u> Phone: 970-351-2559 Email: <u>chemistry@unco.edu</u>

Program Admission Requirements -

Academic Good Standing.

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

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. STEP 161 Observation & Analysis of Secondary Teaching I. 2 hours seminar at night and 2 hours lab at partnership school one day per week. STEP 161; EDR 366 are PTEP I courses. They are co-requisites and should be taken concurrently.
- 3. STEP 262 Observation & Analysis of Secondary Teaching II. 2 hours seminar at night and 2 hours lab at partnership school one day per week. STEP 262, EDSE 360, EPSY 349 are PTEP II courses and should be taken concurrently. In exceptional cases the PTEP I and PTEP II courses may be taken simultaneously.
- 4. STEP 363 Clinical Experience-Secondary. 4 hours in 2 days, 2-hr. block per day. SCED 441; STEP 363; EDRD 340; ET 449 are PTEP III courses. They are co-requisites and should be taken concurrently. PTEP I & PTEP II must be completed before taking these courses.
- 5. CHEM 360 Environmental Chemistry offered spring only on odd numbered years.
- 6. All students in the program must take as assessment examination prior to graduation.

This program is designed to prepare students as secondary school chemistry teachers licensed in science by the Colorado Department of Education. In addition to a strong background in chemistry, students will receive training in biological sciences, physics, earth sciences and mathematics. Students completing this degree can be certified by the American Chemical Society. See advisor for details.

Students graduating with this degree emphasis will be well prepared to teach chemistry and other sciences in junior and senior high school. Students completing this program will be prepared to pursue graduate study in chemical education or science education.

This program will take four to five years to complete depending on high school background and the point in the educational career at which the program is entered.

- A. Upper-level courses are generally taught only one semester per year and are marked on the sheet as F (Fall), S(Spring). If they are taught once per year and are a two-semester series, the first semester will generally be taught in the Fall. In this plan courses are listed in order of required prerequisites first.
- B. Students must have at least a 2.5 GPA in chemistry courses prior to application for student teaching.
- C. Students majoring in chemistry must earn a grade of "C" or better (C- is not acceptable) in all courses having CHEM prefix which count toward the major.
- D. ACS Certification in Chemical Education. Students who wish to be certified in Chemical Education by the American Chemical Society must complete CHEM 381/381L, CHEM 421, CHEM 442, CHEM 443, MATH 132 and MATH 233 in addition to the requirements listed above, and may either substitute CHEM 451, CHEM 451L, CHEM 452, and CHEM 452L in place of the one-semester of CHEM 450/450L or take CHEM 481, CHEM482, CHEM 481L, and CHEM 482L in place of the one-semester of CHEM 381. Note that the specific option chosen may indicate additional pre-requisites that need to be taken.

PTEP Program Requirements:

If you are seeking licensure in your program area, the following items are required to complete your program.

- Completion of Application for Initial Admission to PTEP
- Completion of Full Admission to PTEP
- Completion of Application for Student Teaching
- Completion of content specific PRAXIS test prior to Student Teaching
- Candidates may not take extra courses with Student Teaching without prior approval from the ProgramCoordinator and the STE Director.
- All PTEP Field Experiences and methods courses need to be successfully completed prior to StudentTeaching.
- Student Teaching outside the supervision of UNC Faculty may or may not be approved.
- Teacher Candidates will not be placed in a school where they were once students or where they have a close relative attending and/or working.
- Teacher education and educator preparation licensure programs do not accept Professional Teacher Education Program (PTEP) or field-based courses that are more than ten years old. PLEASE NOTE: Teacher Candidates have the right to petition this policy at the discretion of the program coordinator.