



DEGREE WORKSHEET FOR:

BS Chemistry, Forensic Science Emphasis

2020-2021 Catalog

Degree Requirements – 120 credits

YEAR 1-FALL (16 credits)		YEAR 1-SPRING (14 credits)	
CHEM 111/111L Principles of Chemistry I (LAC Area 6)	4/1 credits	CHEM 112/112L Principles of Chemistry II	4/1 credits
ENG 122 College Composition (LAC Area 1a)	3 credits	Minor Course	3 credits
MATH 131 ² Calculus I (LAC Area 2)	4 credits	Liberal Arts Core ¹	3 credits
BIO 110 Biology: Atoms to Cells (LAC Area 6)	4 credits	Elective Course	3 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	SCI 291 ³ Scientific Writing (LAC Area 1.b)	3 credits
Liberal Arts Core ¹	3 credits	Minor Course	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 Core ¹	3 credits
YEAR 4-FALL (14 credits)		YEAR 4-SPRING (16 credits)	
Minor Course	3 credits	CHEM 450/450L Survey of Physical Chemistry (S)	3/1 credits
Research and/or Internship ⁴	2 credits	Minor course	3 credits
Elective Courses	6 credits	Liberal Arts Core ¹	4 credits
Liberal Arts Core ¹	3 credits	Elective Courses	5 credits
		Chemistry Assessment Exam ⁵	0 credits

Admission Requirement – No separate admission requirement.

Minor Required – Criminal Justice or Anthropology

Contact Information – Department of Chemistry & Biochemistry

Ross Hall Room 3480, 970-351-2559

Department Web Page: <http://www.unco.edu/nhs/chemistry-biochemistry/>

This worksheet 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; have at least 40 credit hours in courses designated as Liberal Arts Core; 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.**

Notes

- 1 Students may select courses from LAC areas 7 and 8 that also count for areas 3, 4, or 5, but the total hours of LAC must be 40.
- 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 (3) 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 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.