

BACHELOR OF SCIENCE IN CHEMISTRY
Chemistry Emphasis--ACS-Certified

YEAR 1

CHEM 111 Prin of Chem I ^{LAC, Area 6}	5	CHEM 112 Prin of Chem II	5
MATH 131 ¹ Calculus I ^{LAC, Area 2}	4	MATH 132 Calculus II	4
LAC	<u>6</u>	LAC	<u>6</u>
	15		15

YEAR 2

CHEM 331 (F) Organic Chemistry I	5	CHEM 332 (S) Organic Chemistry II	5
PHYS 240 General Physics I ^{LAC, Area 6}	5	PHYS 241 General Physics II	5
MATH 233 Calculus III	<u>4</u>	SCI 291 ² Scientific Writing ^{LAC, Area 1b}	3
	14	LAC	<u>3</u>
			16

YEAR 3

CHEM 321 (F) Chemical Analysis	4	CHEM 421 (S) Instrumental Analysis	4
CHEM 451 (F) Physical Chemistry I	4	CHEM 441/442 (S) Inorganic Chem I/II	4
CHEM 453 (F) Physical Chemistry I Lab	1	CHEM 443 (S) Inorganic Chemistry Lab	1
CHEM 481 ³ (F) General Biochemistry	3	CHEM 452 (S) Physical Chemistry II	4
LAC	<u>3</u>	CHEM 454 (S) Physical Chemistry II Lab	<u>1</u>
	15		14

YEAR 4

Chemistry Electives ⁴	1-3	Chemistry Electives ⁴	1-3
Electives	9	Electives	9
LAC	3	LAC	3
CHEM 499 Seminar & Research in Chemistry	<u>1</u>	CHEM 499 Seminar & Research in Chem.	<u>1</u>
	14-16		14-16

¹ Students who lack sufficient preparation in mathematics may need to start in MATH 124 (4)--College Algebra, MATH 125 (3)--Plane Trigonometry, or MATH 127 (4)--Elementary Functions. Consult your advisor.

² With advisor approval, students can substitute for SCI 291 (3)--Scientific Writing for their Intermediate Composition requirement

³ The student may substitute CHEM 281 (5) for CHEM 481.

⁴Chemistry Electives

- CHEM 481 General Biochemistry I (3)
- CHEM 482 General Biochemistry II (3)
- CHEM 483 Experimental Biochemistry I (1)
- CHEM 484 Experimental Biochemistry II (1)
- 500-level Chemistry Course (3)

CHEMISTRY AND BIOCHEMISTRY

Contact Information:

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Department Web Page: http://www.unco.edu/chemist/chem_hp.htm

- A. The four-year plan described on the other side of this sheet is only a suggested track in which to complete this major. The student must meet with his/her advisor 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) if they are taught once per year with the first semester of two being taught in the Fall. In this plan courses are listed in order of required prerequisites first.
- C. Each major requires 120 total credits prior to graduation.
- D. Some upper-level courses are separate from laboratory; e.g., CHEM 451/CHEM 453–Physical Chemistry I and Physical Chemistry I Lab and CHEM 452/CHEM 454–Physical Chemistry II and Physical Chemistry II Lab. In these cases, the two are typically taken concurrently—in any case, the lecture must be taken either concurrently or would be considered a prerequisite to the laboratory.