



DEGREE WORKSHEET FOR: BS Chemistry, Pre-Health Emphasis 2012-2013 Catalog Degree Requirements – 120 credits

YEAR 1- FALL (16 credits)		YEAR 1- SPRING (14 credits)	
ENG 122 College Composition (LAC Area 1a)	3 credits	CHEM 112 Prin. of Chemistry II	5 credits
CHEM 111 Prin. of Chemistry I (LAC Area 6)	5 credits	BIO 111 Organismal Biology	4 credits
BIO 110 Principles of Biology (LAC Area 6)	4 credits	Liberal Arts Core ¹	5 credits
MATH 131 ² Calculus I (LAC Area 2)	4 credits		
YEAR 2- FALL (16 credits)		YEAR 2-SPRING (16 credits)	
CHEM 331 Organic Chemistry I (F)	5 credits	CHEM 332 Organic Chemistry II (S)	5 credits
PHYS 220 Intro. to Physics 1 (LAC Area 6)	5 credits	PHYS 221 Intro. to Physics II	5 credits
Biology or Mathematics Elective ³	3 credits	Biology or Mathematics Elective ³	3-4 credits
Liberal Arts Core ¹	3 credits	Liberal Arts Core ¹	2-3 credits
YEAR 3- FALL (16 credits)		YEAR 3- SPRING (14 credits)	
CHEM 321 Chemical Analysis (F)	4 credits	CHEM 441 Inorganic Chemistry I (S)	2 credits
CHEM 481 General Biochemistry I (F)	3 credits	CHEM 450 Survey of Physical Chemistry (S)	4 credits
SCI 291 ⁴ Scientific Writing (LAC Area 1b)	3 credits	CHEM 482 General Biochemistry II (S)	3 credits
Liberal Arts Core ¹	6 credits	CHEM 483 Exp Biochemistry I (S)	1 credit
		CHEM 484 Exp Biochemistry II (S)	1 credit
		Liberal Arts Core ¹	3 credits
YEAR 4- FALL (14 credits)		YEAR 4- SPRING (14 credits)	
Biology or Mathematics Elective ³	3 credits	Research and Electives	14 credits
Research and Electives	8 credits		
Liberal Arts Core ¹	3 credits		

Admission Requirement – No separate admission requirement.

Minor Required- No minor required.

Notes – see page 2

Contact Information – Department of Chemistry & Biochemistry

Ross Hall Room 3480, 970-351-2559

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

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 ¹Students may select courses from LAC areas 7 and 8 that also count for areas 3, 4, or 5
- 2 ²Students 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 ³Students are required to take 7-8 hours of biology electives and a CS or STAT course (3 hours).
Biology Electives –Select two of the following:
 BIO 341 Human Anatomy (3)
 BIO 350 Human Physiology (4)
 BIO 351 Microbiology (4)
Consult advisor for computer science (CS) or statistics (STAT) course to fulfill mathematics elective.
- 4 ⁴With advisor approval, students can substitute ENG 123 for SCI 291 (3)—Scientific Writing.

Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Veterinary, Pre-Podiatry and Pre-Pharmacy coursework

This program offers training in chemistry, mathematics and physics with a broad base in biological sciences and biochemistry. It provides a solid foundation in chemistry and biological sciences for those students planning to pursue professional studies in dentistry, medicine, optometry, podiatry, pharmacy or veterinary medicine.

Students completing this degree emphasis should verify that the elective courses taken satisfy the requirements or recommendations of the particular professional school they wish to attend. Acceptance into these schools is competitive. All pre-health students should seek assistance from an advisor to confirm their course plans. Students considering graduate study in chemistry or biochemistry may be required to complete additional course work in chemistry and/or mathematics depending on the entrance requirements of the specific graduate school.

- 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.. Some upper-level courses are separate from laboratory; e.g., CHEM 481/CHEM 483—General Biochemistry I and Experimental Biochemistry I and CHEM 482/CHEM 484—General Biochemistry II and Experimental Biochemistry II. In these cases, CHEM 481 is taught by itself in the Fall and CHEM 482 and the two laboratories are taught in the Spring, CHEM 483 meeting in two 3-hour blocks/week the first half of the semester and CHEM 484 the same schedule the second half of the semester—in any case the lecture must be taken either concurrently or would be considered a prerequisite to the laboratory.
- D. Graduate level CHEM courses are recommended for juniors and seniors. Other recommended electives include MATH 132, MATH 221, MATH 335, STAT 150, PHYS 321, and PHYS 343.
- E. 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.