CHEMISTRY, BACHELOR OF ARTS

To obtain a B.A. with a major in Chemistry, a student must fulfill university, college, and departmental requirements. Minimum hour requirements follow:

- 46 hours of University General Education courses *(Testing out of academic skills requirements and enrolling in General Education courses that meet both distribution and diversity requirements are likely to reduce the total number of General Education hours to 34 or fewer.)*
- 16 hours foreign language requirement
- 12 hours college breadth requirement
- 36 hours of major courses
- 19 hours of other courses required for the major
- Elective hours as required to total 120 hours

TOTAL HOURS: 120

Requirements

A B.A. degree in chemistry requires a minimum of 36 credit hours of approved chemistry courses.

Code	Title	Credits
Chemistry Requirements		
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	4
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY	4
CHEM 2250	ORGANIC CHEMISTRY I	3
CHEM 2260 & CHEM 2274	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY	5
CHEM 2400 & CHEM 2404	QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB	4
CHEM 2500	INTRODUCTION TO INORGANIC CHEMISTRY	3
Select two of the following:		8
CHEM 3350 & CHEM 3354	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LABORATORY	
CHEM 3360 & CHEM 3364	PHYSICAL CHEMISTRY II and PHYSICAL CHEMISTRY II LABORATORY	
CHEM 4650 & CHEM 4654	BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY ( )	
Five additional credit hours of chemistry must come from the chemistry courses approved for the B.S. in Chemistry degree.		5
Total Credits		**36**

Code	Title	Credits
Other Required Courses for the Major:		
MATH 1950	CALCULUS I	5
MATH 1960	CALCULUS II	4
Select one of the following sequences:		10
Sequence A:		
PHYS 2110 & PHYS 1154	GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I	
PHYS 2120 & PHYS 1164	GENERAL PHYSICS-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II	
Sequence B:		
PHYS 1110 & PHYS 1154	GENERAL PHYSICS I and GENERAL PHYSICS LABORATORY I	
PHYS 1120 & PHYS 1164	GENERAL PHYSICS II and GENERAL PHYSICS LABORATORY II	
Total Credits		**19**

Code	Title	Credits
Recommended but not required:		
MATH 1970	CALCULUS III	4

For a B.A., the college requires completion of a foreign language through the intermediate level.

Freshman		
Fall		**Credits**
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (*)	4
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
ENGL 1150	ENGLISH COMPOSITION I (**)	3
MATH 1950	CALCULUS I (**)	5
*CHEM 1180: Requires appropriate Math placement. Must take 1184 concurrently.		
**ENGL 1150: Requires appropriate English Placement.		
***MATH 1950: Requires appropriate Math placement. MATH 1950 is part of other required courses for the major.		
	Credits	**15**
Spring		
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (*)	4
ENGL 1160	ENGLISH COMPOSITION II	3
MATH 1960	CALCULUS II (**)	4
Social Science/US Diversity		3
*CHEM 1190: See the catalog for most up-to-date prerequisites. Requires 1194 be taken concurrently.		
**MATH 1960 prereq is MATH 1950. MATH 1960 is part of the other required courses for the major.		
	Credits	**14**
Summer		
PHYS 2110 or PHYS 1110	GENERAL PHYSICS I - CALCULUS LEVEL (*) or GENERAL PHYSICS I	4
PHYS 1154	GENERAL PHYSICS LABORATORY I	1
	Credits	**5**
Sophomore		
Fall		
CHEM 2250	ORGANIC CHEMISTRY I (*)	3
CHEM 2400 & CHEM 2404	QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB (**)	4
Humanities and Fine Arts		3
Social Science		3
	Credits	**13**
Spring		
CHEM 2260 & CHEM 2274	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY (*)	5

CHEM 2500	INTRODUCTION TO INORGANIC CHEMISTRY (**)	3
CAS Requirement (HIST 1000 or Minor/2nd Major Course)***		3
Humanities and Fine Arts		3
***CAS College Requirement		
	Credits	**14**

Summer

PHYS 2120 or PHYS 1120	GENERAL PHYSICS-CALCULUS LEVEL (*) or GENERAL PHYSICS II	4
PHYS 1164	GENERAL PHYSICS LABORATORY II	1
	Credits	**5**

Junior

Fall

CHEM 3350 & CHEM 3354	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LABORATORY (*)	4
OR		
CHEM 4650 & CHEM 4654	BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY (**)	
Advanced Chemistry Course*		1-3
Social Science**		3
Foreign Language 1110^		5
*Must take 5 credit hours of Advanced Chemistry courses from the approved list of courses for the BS Chemistry.		
**Social Science must come from a 2nd discipline		
^Level 1110 foreign language courses count as a Humanity/ Fine Arts course, Global Diversity, and toward the student's BA requirement. If student is fulfilling the BA requirement via alternative methods, then 16 additional credits including a HFA and Global Diversity will need to be factored in to this degree plan.		
	Credits	**13-15**

Spring

CHEM 3360 & CHEM 3364	PHYSICAL CHEMISTRY II and PHYSICAL CHEMISTRY II LABORATORY (*)	4
OR Advanced Chemistry Course**		
NSCI 3940	WRITING IN CHEMISTRY (***)	2
Foreign Language 1120		5
Minor/2nd Major or Elective Course^		3
**Must take 5 credit hours of Advanced Chemistry courses from the approved list of courses for the BS Chemistry.		
***NSCI 3940: Requires ENGL 1160, and CHEM 2400 or 2500.		
^CAS College Requirement		
	Credits	**14**

Senior

Fall

CHEM 3350 & CHEM 3354	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LABORATORY (*)	4
OR		
CHEM 4650 & CHEM 4654	BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY (**)	
OR Advanced Chemistry Course (3-4 cr)***		
Foreign Language 2110		3
Minor/2nd Major or Elective Course		3
CAS Requirement: Additional Humanities/Fine Arts course or Minor/2nd Major course^		3
***Must take 5 credit hours of Advanced Chemistry courses from the approved list of courses for the BS Chemistry.		
^CAS College Requirement: Add'l Humanities must be from 3rd discipline.		
	Credits	**13**

Spring

Advanced Chemistry Course or Elective to reach 120 hours	3
Foreign Language 2120	3
CAS Requirement: Additional Social Science or Minor/2nd Major course*	3
CAS Requirement: HIST 1010 or Minor/2nd Major course**	3
*CAS College Requirement: Add'l Social Science must be from 3rd discipline.	
**Students need a minimum of 120 total credit hours. May need to select electives to reach this minimum.	
Credits	**12**
Total Credits	**118-120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change. Transfer credit or placement exam scores may change suggested plan of study.

Additional Information About this Plan:

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

Placement Exams: For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php

GPA Requirements: 2.0