# Chemistry (7-12) Endorsement

**Code** | **Title** | **Credits**<br>---|---|---<br>CHEM 1180 & CHEM 1184 | General Chemistry I and General Chemistry I Laboratory | 4<br>CHEM 1190 & CHEM 1194 | General Chemistry II and General Chemistry II Laboratory | 4<br>CHEM 2210 & CHEM 2214 | Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory | 5<br>CHEM 2400 & CHEM 2404 | Quantitative Analysis and Quantitative Analysis Laboratory | 4<br>CHEM 2500 | Introduction to Inorganic Chemistry | 3<br>CHEM 3350 & CHEM 3354 | Physical Chemistry I and Physical Chemistry I Laboratory | 4<br>CHEM 3650 & CHEM 3654 | Fundamentals of Biochemistry and Fundamentals of Biochemistry Laboratory | 4<br>GEOL 1170 | Introduction to Physical Geology | 4<br>PHYS 2110 & PHYS 1154 | General Physics I - Calculus Level and General Physics Laboratory I | 5<br>PHYS 2120 & PHYS 1164 | General Physics-Calculus Level and General Physics Laboratory II | 5<br>MATH 1950 | Calculus I | 5<br>MATH 1960 | Calculus II | 5<br><br>Total Credits | 52<br><br>**Freshman**<br><br>Fall<br>ENGL 1150 | English Composition I | 3<br>MATH 1950 | Calculus I | 5<br>CHEM 1180 & CHEM 1184 | General Chemistry I and General Chemistry I Laboratory | 4<br>Social Science | 3<br>Advising appointment for spring: Sept. - Oct.<br>Make a plan to take the Praxis Core<br><br>Spring<br>ENGL 1160 | English Composition II | 3<br>CMST 1110 | Public Speaking Funds | 3<br>MATH 1960 | Calculus II | 5<br>CHEM 1190 & CHEM 1194 | General Chemistry II and General Chemistry II Laboratory | 4

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**Sophomore**<br><br>Fall<br>TED 2100 | Educational Foundations | 3<br>CHEM 2210 & CHEM 2214 | Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory | 5<br>CHEM 2400 & CHEM 2404 | Quantitative Analysis and Quantitative Analysis Laboratory | 4<br>Elective for Degree | 2<br>Advising appointment for spring: Sept. - Oct.<br>Identify professional organization to get involved with. Begin resume development.<br><br>Spring<br>TED 2200 | Human Relations for Bias-Free Classrooms | 3<br>CHEM 2500 | Introduction to Inorganic Chemistry | 3<br>CHEM 3650 & CHEM 3654 | Fundamentals of Biochemistry and Fundamentals of Biochemistry Laboratory | 4<br>PHYS 2110 & PHYS 1154 | General Physics I - Calculus Level and General Physics Laboratory I | 5<br>MATH 1950 | Calculus I | 5<br>MATH 1960 | Calculus II | 5<br>Social Science | 3<br>Advising appointment for fall: February - March<br>Apply to Educator Preparation Program March 1 or June 1 deadline<br><br>**Junior**<br><br>Fall<br>TED 2380 | Development and Learning in Adolescence | 3<br>TED 2400 | Planning for Effective Teaching | 6<br>CHEM 3350 & CHEM 3354 | Physical Chemistry I and Physical Chemistry I Laboratory | 4<br>Humanities and Fine Arts | 3<br>Advising appointment for spring: Sept. - Oct.<br>MUST pass PRAXIS Core by Nov 30th and have 2.75 minimum NU GPA to progress in Educator Preparation Program.<br><br>Spring<br>TED 3550 | Secondary Classroom Management | 3<br>TED 3690 | Literacy and Learning | 3<br>SPED 3800 | Differentiation and Inclusive Practices | 3<br>PHYS 2120 & PHYS 1164 | General Physics-Calculus Level and General Physics Laboratory II | 5<br>Social Science | 3<br>Advising appointment for fall: February - March<br><br>---

*Student must test into MATH 1950 Calculus I based off of ACT Math scores or Accuplacer exam, or bring transfer credit for MATH 1320 & 1330 or MATH 1340. These additional math courses may be required before MATH 1950 if the student does not test into it.*
Senior

Fall
TED 4000  SPECIAL METHODS IN THE CONTENT AREA  3
GEOL 1170  INTRODUCTION TO PHYSICAL GEOLOGY  4
Social Science  3
Humanities and Fine Arts  3
Humanities and Fine Arts with Global Diversity  3
Take Praxis II: Chemistry: Content Knowledge #5245
Apply for clinical practice at beginning of fall term.

Credits  16

Spring
TED 4600  CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL  12

Apply for graduation

Credits  12

Total Credits  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.

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. Information based on 2021-2022 University of Nebraska at Omaha undergraduate catalog.

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

**Transfer credit or placement exam scores may change suggested plan of study

GPA Requirements:
2.5 minimum GPA to remain in College of Education, 2.5 minimum GPA to apply to Educator Preparation Program, 2.75 minimum GPA to progress in Educator Preparation Program

# Professional education course: a grade of C or higher is required to pass the class

Graduation Requirements: 2.75 minimum NU GPA