

# SCIENCE (7-12) ENDORSEMENT

## Secondary Education, Bachelor Science in Education - Science (7-12) Endorsement Requirements

Code	Title	Credits
<b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>		
Minimum of "C-" required		
<b>Fundamental Skills</b>		<b>15</b>
<b>Writing – 6 hrs.</b>		
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	
<b>Oral Communication – 3 hrs.</b>		
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
<b>Quantitative Literacy – 3 hrs.</b>		
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
<b>Data Literacy – 3 hrs.</b>		
Select one from the following:		
STAT 1100	DATA LITERACY AND VISUALIZATION	
STAT 1530	ELEMENTARY STATISTICS	
Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.		
<b>Breadth of Knowledge</b>		<b>13</b>
Social Science - 3 hrs		
Humanities - 3 hrs		
Natural & Physical Science (must complete a lab) – 4 hrs.		
Arts - 3 hrs		
<b>Individual and Social Responsibility</b>		<b>6</b>
Cultural Knowledge - 3 hrs		
Civic Knowledge and Engagement - 3 hrs		
<b>MAJOR REQUIREMENTS - 87 Hours Required</b>		
**Course will satisfy UNO's General Education requirement		
^Course requires pre-requisite(s)		
<b>All of the following:</b>		<b>39</b>
TED 2100	EDUCATIONAL FOUNDATIONS (^)	
TED 2200	HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)	
or TED 2060	EQUITY, LANGUAGE, AND CULTURAL LITERACY	
TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)	
TED 2400	PLANNING FOR EFFECTIVE TEACHING (^)	
TED 3550	SECONDARY CLASSROOM MANAGEMENT (^)	
TED 3690	LITERACY AND LEARNING (^)	

SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES (^)	
TED 4000	SPECIAL METHODS IN THE CONTENT AREA (^)	
TED 4600	CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)	
<b>Science Endorsement required courses</b>		<b>48</b>
BIOL 1450	BIOLOGY I (** ^)	
BIOL 1750	BIOLOGY II (^)	
CHEM 1180	GENERAL CHEMISTRY I (** ^)	
CHEM 1184	GENERAL CHEMISTRY I LABORATORY (** ^)	
CHEM 1190	GENERAL CHEMISTRY II (^)	
CHEM 1194	GENERAL CHEMISTRY II LABORATORY (^)	
CHEM 2210	FUNDAMENTALS OF ORGANIC CHEMISTRY (^)	
CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)	
PHYS 1110	PHYSICS FOR LIFE SCIENCE I (** ^)	
PHYS 1154	GENERAL PHYSICS LABORATORY I (** ^)	
PHYS 1120	PHYSICS FOR LIFE SCIENCE II (^)	
PHYS 1164	GENERAL PHYSICS LABORATORY II (^)	
PHYS 1350	PRINCIPLES OF ASTRONOMY (** ^)	
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY (**)	
GEOL 1100	EARTH SYSTEM SCIENCE (**)	
GEOL 1104	EARTH SYSTEM SCIENCE LAB (**)	
MATH 1300	COLLEGE ALGEBRA WITH SUPPORT (**)	

### ELECTIVES

Elective hours as required to reach a total of 120 hours

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

## Secondary Education, Bachelor Science in Education - Science (7-12) Endorsement Four Year Plan

### Freshman

Fall		Credits
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	4
CMST 1110	PUBLIC SPEAKING FUNDS	3
or CMST 2120	or ARGUMENTATION AND DEBATE	
BIOL 1450	BIOLOGY I	5
Attend Welcome Week events; other campus events		
Advising appointment for spring: Sept. - Oct.		

Note: ENGL 1150, ENGL 1160, CMST 1110 or 2120, and approved math (Quantitative Literacy) course should be taken and passed in the first academic year

		<b>Credits</b>	<b>15</b>
<b>Spring</b>			
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	3	
Social Science		3	
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4	
BIOL 1750	BIOLOGY II	5	
Join a student organization			
MUST establish 2.0+ NU GPA (by the end of summer courses) in order to enroll in TED 2100 for fall semester			
		<b>Credits</b>	<b>15</b>
<b>Summer</b>			
Civic Knowledge and Engagement		3	
PHYS 1350	PRINCIPLES OF ASTRONOMY	3	
		<b>Credits</b>	<b>6</b>
<b>Sophomore</b>			
<b>Fall</b>			
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	4	
PHYS 1110 & PHYS 1154	PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I	5	
TED 2200 or TED 2060	HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS or EQUITY, LANGUAGE, AND CULTURAL LITERACY	3	
Advising appointment for spring: Sept. - Oct.			
Identify professional organization to get involved with. Begin resume development.			
		<b>Credits</b>	<b>12</b>
<b>Spring</b>			
Humanities		3	
TED 2100	EDUCATIONAL FOUNDATIONS	3	
PHYS 1120 & PHYS 1164	PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II	5	
Arts		3	
Advising appointment for fall: February - March			
Apply to Educator Preparation Program for March 1 or June 1 deadline			
		<b>Credits</b>	<b>14</b>
<b>Summer</b>			
Cultural Knowledge		3	
Elective		3	
		<b>Credits</b>	<b>6</b>
<b>Junior</b>			
<b>Fall</b>			
TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE	3	
TED 2400	PLANNING FOR EFFECTIVE TEACHING	6	
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY	4	
Advising appointment for spring: Sept. - Oct.			
MUST by January 10th have 2.75 minimum NU GPA to progress in Educator Preparation Program.			
		<b>Credits</b>	<b>13</b>

**Spring**

TED 3550	SECONDARY CLASSROOM MANAGEMENT	3	
TED 3690	LITERACY AND LEARNING	3	
CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY	5	
Data Literacy		3	
Advising appointment for fall: February - March			
		<b>Credits</b>	<b>14</b>
<b>Senior</b>			
<b>Fall</b>			
TED 4000	SPECIAL METHODS IN THE CONTENT AREA	3	
SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES	3	
GEOL 1100 & GEOL 1104	EARTH SYSTEM SCIENCE and EARTH SYSTEM SCIENCE LAB	4	
Elective		3	
Take Praxis II- General Science: Content Knowledge #5436			
Advising appointment for spring: Sept. - Oct.			
Apply for clinical practice at beginning of fall term.			
		<b>Credits</b>	<b>13</b>
<b>Spring</b>			
Clinical Practice		12	
Apply for graduation			
		<b>Credits</b>	<b>12</b>
		<b>Total Credits</b>	<b>120</b>

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 in this document is based off of the 2025-2026 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:** Cumulative 2.5 GPA for Educator Preparation Program initial acceptance, cumulative 2.75 GPA for formal admission and graduation.

**Graduation Requirements:** Students must have a cumulative GPA of at least 2.75, no grade lower than "C" in required courses, and no incomplete in required courses to be recommended for graduation.