

BIOLOGY (7-12) ENDORSEMENT

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

Code	Title	Credits
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GENERAL EDUCATION REQUIREMENTS - 46 Hours Required

Minimum of "C-" required

Fundamental Academic Skills **15**

ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	ENGLISH COMPOSITION II	
Writing in the Discipline Course		
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1100	DATA LITERACY AND VISUALIZATION	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
or STAT 1100	DATA LITERACY AND VISUALIZATION	
or STAT 1530	ELEMENTARY STATISTICS	

Distribution Requirements **31**

Natural Science - From two disciplines and at least one lab - 7 hrs	
Social Science - From two disciplines - 9 hrs	
Humanities and Fine Arts - From two disciplines - 9 hrs	
Global Diversity - 3 hrs	
US Diversity - 3 hrs	

MAJOR REQUIREMENTS - 85-86 Hours Required

**Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

All of the following: **39**

TED 2100	EDUCATIONAL FOUNDATIONS (** ^)	
TED 2200	HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)	
TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)	
TED 2400	PLANNING FOR EFFECTIVE TEACHING (^)	
SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES (^)	
TED 3550	SECONDARY CLASSROOM MANAGEMENT (^)	
TED 3690	LITERACY AND LEARNING (^)	
TED 4000	SPECIAL METHODS IN THE CONTENT AREA (^)	
TED 4600	CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)	

Biology Endorsement required courses - **46-47**

BIOL 1450	BIOLOGY I (** ^)	
BIOL 1750	BIOLOGY II (^)	

BIOL 2140	GENETICS (^)	
BIOL 2740	HUMAN ANATOMY AND PHYSIOLOGY I (^)	
BIOL 3020	MOLECULAR BIOLOGY OF THE CELL (^)	
or BIOL 3340	ECOLOGY	
BIOL 3830	BIOLOGY OF PATHOGENIC MICROORGANISMS (^)	
BIOL 4230	EVOLUTION (^)	
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY (**)	
CHEM 1140	FUNDAMENTALS OF COLLEGE CHEMISTRY (** ^)	
CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)	
CHEM 2210	FUNDAMENTALS OF ORGANIC CHEMISTRY (^)	
CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)	
PHYS 1050	INTRODUCTION TO PHYSICS (** ^)	
PHYS 1054	INTRODUCTION TO PHYSICS LABORATORY (** ^)	

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 - Biology (7-12) Endorsement Four Year Plan

Freshman

Fall		Credits
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	4
BIOL 1450	BIOLOGY I	5
Social Science		3

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

	Credits	15
Spring		
ENGL 1160	ENGLISH COMPOSITION II	3
CMST 1110	PUBLIC SPEAKING FUNDS	3
BIOL 1750	BIOLOGY II	5
Humanities and Fine Arts		3

Advising appointment for fall: February - March
 Join a student organization
 Make a plan to take the Praxis Core

Credits		14
Sophomore		
Fall		
TED 2100	EDUCATIONAL FOUNDATIONS	3
CHEM 1140	FUNDAMENTALS OF COLLEGE CHEMISTRY	4
CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY	1
BIOL 2740	HUMAN ANATOMY AND PHYSIOLOGY I	4
Social Science		3
Advising appointment for spring: Sept. - Oct.		
Identify professional organization to get involved with. Begin resume development.		

Credits		15
Spring		
TED 2200	HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS	3
BIOL 2140	GENETICS	4
CHEM 2210	FUNDAMENTALS OF ORGANIC CHEMISTRY	4
CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY	1
Humanities and Fine Arts		3
Advising appointment for fall: February - March		
Apply to Educator Preparation Program March 1 or June 1 deadline		

Credits		15
Junior		
Fall		
TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE	3
TED 2400	PLANNING FOR EFFECTIVE TEACHING	6
BIOL 4230	EVOLUTION	3
BIOL 3020 or BIOL 3340	MOLECULAR BIOLOGY OF THE CELL or ECOLOGY	3
Advising appointment for spring: Sept. - Oct.		
MUST attempt PRAXIS Core by January 10th and have 2.75 minimum NU GPA to progress in Educator Preparation Program.		

Credits		15
Spring		
TED 3550	SECONDARY CLASSROOM MANAGEMENT	3
TED 3690	LITERACY AND LEARNING	3
BIOL 3830	BIOLOGY OF PATHOGENIC MICROORGANISMS	3
PHYS 1050	INTRODUCTION TO PHYSICS	4
PHYS 1054	INTRODUCTION TO PHYSICS LABORATORY	1
Advising appointment for fall: February - March		

Credits		14
Summer		
Social Science		3
Electives Required for Degree*		5
Advising appointment for spring: Sept. - Oct.		

MUST pass PRAXIS Core by Nov 30th and have 2.75 minimum NU GPA to progress in Educator Preparation Program.

^May be taken in summers or other semesters before Clinical Practice. Talk to your advisor about how many credit hours of electives you need for your degree.

Credits		8
Senior		
Fall		
TED 4000	SPECIAL METHODS IN THE CONTENT AREA	3
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
Humanities/Fine Arts (Global Diversity)		3
SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES	3
Take Praxis II- Biology: Content Knowledge #5235		
Advising appointment for spring: Sept. - Oct.		
Apply for clinical practice at beginning of fall term.		

Credits		13
Spring		
Clinical Practice		12
Apply for graduation		
Credits		12
Total Credits		121

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 the 2024-2025 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