

MATHEMATICS (6-12) ENDORSEMENT

Secondary Education, Bachelor Science in Education - Mathematics (6-12) Endorsement Requirements

Code Title Credits

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 - 79 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 (^)	

Math Endorsement required courses - 40 Hours

All of the following: 37

MATH 1950	CALCULUS I (^)	
-----------	----------------	--

MATH 1960	CALCULUS II (^)	
MATH 1970	CALCULUS III (^)	
MATH 2050	APPLIED LINEAR ALGEBRA (^)	
MATH 2230	INTRODUCTION TO ABSTRACT MATH (^)	
MATH 3640	MODERN GEOMETRY (^)	
MATH 3850	HISTORY OF MATHEMATICS (^)	
MATH 4030	MODERN ALGEBRA (^)	
MATH 4560	NUMBER THEORY & CRYPTOGRAPHY (^)	
MATH 2200	MATHEMATICAL COMPUTING I (^)	
or MTCH 2020	NUMBER SENSE, ALGEBRA, AND GEOMETRY FOR MIDDLE SCHOOL EDUCATION	
MATH 4740	INTRODUCTION TO PROBABILITY AND STATISTICS I (^)	

Select one of the courses below 3

MATH 3230	INTRODUCTION TO ANALYSIS (^)	
MATH 2350	DIFFERENTIAL EQUATIONS (^)	
MATH 2200	MATHEMATICAL COMPUTING I (^)	
MATH 3100	APPLIED COMBINATORICS (^)	

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 - Mathematics (6-12) Endorsement Four Year Plan

Freshman

Fall		Credits
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1950	CALCULUS I	5
Social Science		3
Humanities and Fine Arts		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 14

Spring		Credits
ENGL 1160	ENGLISH COMPOSITION II	3
CMST 1110	PUBLIC SPEAKING FUNDS	3
MATH 1960	CALCULUS II	4
Natural/Physical Science with Lab		4-5
Advising appointment for fall: February - March		
Join a student organization		

Make a plan to take the Praxis Core
 MUST establish 2.5+ NU GPA in order to enroll in TED 2100
 for fall semester

Credits 14-15

Sophomore

Fall

TED 2100	EDUCATIONAL FOUNDATIONS	3
MATH 1970	CALCULUS III	4
MATH 2230	INTRODUCTION TO ABSTRACT MATH	3
MATH 2200 or MATH 3250	MATHEMATICAL COMPUTING I or INTRODUCTION TO NUMERICAL METHODS	3

Social Science 3

Advising appointment for spring: Sept. - Oct.

Identify professional organization to get involved with. Begin
 resume development.

Credits 16

Spring

TED 2200	HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS	3
MATH 3850	HISTORY OF MATHEMATICS	3
MATH 4560 or MATH 3230	NUMBER THEORY & CRYPTOGRAPHY or INTRODUCTION TO ANALYSIS	3

Humanities and Fine Arts 3

Social Science 3

Elective for Degree 3

May be taken over the summer, amount of credits depends
 on previous courses- please talk to your advisor.

Advising appointment for fall: February - March

Apply to Educator Preparation Program by March 1 or June 1
 deadline.

Credits 18

Junior

Fall

TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE	3
TED 2400	PLANNING FOR EFFECTIVE TEACHING	6
MATH 4030	MODERN ALGEBRA	3

Choose one of the following courses:

MATH 2050	APPLIED LINEAR ALGEBRA
MATH 2350	DIFFERENTIAL EQUATIONS
MATH 3100	APPLIED COMBINATORICS
MATH 3200	MATHEMATICAL COMPUTING II
MATH 3230	INTRODUCTION TO ANALYSIS
MATH 4050	LINEAR ALGEBRA
MATH 4200	NUMERICAL ANALYSIS
MATH 4400	THE FINITE ELEMENT METHOD
MATH 4560	NUMBER THEORY & CRYPTOGRAPHY
MATH 4610	INTRODUCTION TO TOPOLOGY

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 12

Spring

TED 3550	SECONDARY CLASSROOM MANAGEMENT	3
TED 3690	LITERACY AND LEARNING	3

SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES	3
-----------	--	---

Elective for degree 3

Natural/Physical Science without lab 3

Advising appointment for fall: February - March

Credits 15

Senior

Fall

TED 4000	SPECIAL METHODS IN THE CONTENT AREA	3
----------	--	---

MATH 3640	MODERN GEOMETRY	3
-----------	-----------------	---

Choose two of the following courses: 6

MATH 2050	APPLIED LINEAR ALGEBRA
MATH 2350	DIFFERENTIAL EQUATIONS
MATH 3100	APPLIED COMBINATORICS
MATH 3200	MATHEMATICAL COMPUTING II
MATH 3230	INTRODUCTION TO ANALYSIS
MATH 4050	LINEAR ALGEBRA
MATH 4200	NUMERICAL ANALYSIS
MATH 4400	THE FINITE ELEMENT METHOD
MATH 4560	NUMBER THEORY & CRYPTOGRAPHY
MATH 4610	INTRODUCTION TO TOPOLOGY

Humanities and Fine Arts with Global Diversity 3

Elective for Degree 3

Take Praxis II- Math Content Knowledge #5161

Advising appointment for spring: Sept. - Oct.

Apply for clinical practice at beginning of fall term.

Credits 18

Spring

Clinical Practice 12

Apply for graduation

Credits 12

Total Credits 119-120

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 found in this
 document is 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](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