MATHEMATICS EDUCATION CONCENTRATION

Mathematics, Bachelor of Arts with a Concentration in Mathematics Education Requirements

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Code	Title C	redits
GENERAL EDUCATIO	ON REQUIREMENTS - 46 Hours	
Minimum of "C-"requ	ired	
Fundamental Acad	emic Skills	15
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	ENGLISH COMPOSITION II	
Writing in the Disc	ipline 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	1
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
or STAT 1100	DATA LITERACY AND VISUALIZATION	
or STAT 1530	ELEMENTARY STATISTICS	
Distribution Requir	ements	31
Natural Science - F 7 hrs	rom two disciplines and at least one lab -	
Social Science - Fro	om two disciplines - 9 hrs	
	ne Arts - From two disciplines- 9 hrs	
Global Diversity - 3	hrs	
US Diversity - 3 hrs	i	
MAJOR REQUIREM	ENTS	
**Course will satisfy L	JNO's General Education requirement	
^Course requires pre-	•	
	r with a Concentration in	
Mathematics Educ	ation - 46 Hours Required	
This concentration is	recommended for students interested in	
	econdary Education. In some cases it is ously earn a B.S. or a B.A. in Math and a cation.	
Required Coursewo	ork	25
MATH 1950	CALCULUS I (^)	
MATH 1960	CALCULUS II	
MATH 1970	CALCULUS III	
MATH 2050	APPLIED LINEAR ALGEBRA	
MATH 2230	INTRODUCTION TO ABSTRACT MATH	
MATH 2350	DIFFERENTIAL EQUATIONS	
MATH 3230	INTRODUCTION TO ANALYSIS	
Select one of the fo	llowing	3
CIST 1400	INTRODUCTION TO COMPUTER SCIENCE I	

MATH 2200	MATHEMATICAL COMPUTING I	
	(Recommended for Mathematics Education Concentration)	
MATH 3250	INTRODUCTION TO NUMERICAL METHODS	
	ollowing Mathematics Education	12
Concentration co MATH 3640	MODERN GEOMETRY	
MATH 3840 MATH 3850	HISTORY OF MATHEMATICS	
MATH 3050 MATH 4030	MODERN ALGEBRA	
MATH 4740	INTRODUCTION TO PROBABILITY AND STATISTICS I	
Select two of the	following Mathematics Education	6
Concentration co	Durses	
MATH 3100	APPLIED COMBINATORICS	
MATH 3200	MATHEMATICAL COMPUTING II	
MATH 4050	LINEAR ALGEBRA	
MATH 4560	NUMBER THEORY & CRYPTOGRAPHY	
MATH 4610	INTRODUCTION TO TOPOLOGY	
	ollowing Educator Preparation	27
Program Require		
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	
TED 3550	SECONDARY CLASSROOM MANAGEMENT (^)	
TED 3690	LITERACY AND LEARNING (^)	
TED 4000	SPECIAL METHODS IN THE CONTENT AREA (^)	
SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES (^)	
For those who w Certificate	ant a Nebraska Math 6-12 Teaching	12
TED 4600	CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (Requires completion of all course work, have a minimum cumulative GPA of 2.75, passing Praxis Core scores (Math, Reading, and Writing), and be accepted into Clinical Practice)	
College Breadth		
College of Arts and satisfied by this mo	l Sciences' college breadth requirement ajor	
Bachelor of Arts	Language Requirement	16
FREN, GERM, Or S	PAN, 1110**, 1120, 2110, 2120	
ELECTIVES		

Elective hours as required to reach a total of 120 hours

Mathematics, Bachelor of Arts with a Concentration in Mathematics Education Four Year Plan

Freshman

Freshman		
Fall		Credits
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
ENGL 1150	ENGLISH COMPOSITION I (*)	3
MATH 1950	CALCULUS I (**)	5
Foreign Language C	ourse 1110***	5
*ENGL 1150: Req	uires placement via EPPE, AP, or ACT.	
**MATH 1950: Re scores.	equires placement exam or ACT or SAT	
Humanity/Fine A the student's BA requirement via c	eign language courses count as a rts course, Global Diversity, and toward requirement. If student is fulfilling the BA alternative methods, then 16 additional a HFA and Global Diversity will need to be s degree plan.	
Spring	Credits	16
ENGL 1160	ENGLISH COMPOSITION II	3
MATH 1960	CALCULUS II	4
MATH 2050	APPLIED LINEAR ALGEBRA (*)	3
Foreign Language C	()	5
	Begin studying for Praxis CORE Academic	
*MATH 2050: Red	quires MATH 1950.	
•	Credits	15
Summer		4
MATH 1970	CALCULUS III	4
Carlana	Credits	4
Sophomore Fall		
MATH 2200	MATHEMATICAL COMPUTING I (*)	3
MATH 2230	INTRODUCTION TO ABSTRACT MATH (**)	3
TED 2100	EDUCATIONAL FOUNDATIONS (***)	3
TED 2200	HUMAN RELATIONS FOR BIAS-FREE	3
120 2200	CLASSROOMS (^)	5
Foreign Language C	()	3
*MATH 2200: Red	quires MATH 1950.	
**MATH 2230: Re	equires MATH 1960.	
***TED 2100: Rec Requirement.	uires 2.50 GPA. Fulfills Advanced Writing	
^TED 2200: Requ	ires 2.50 GPA.	
	Credits	15
Spring		
MATH 3200	MATHEMATICAL COMPUTING II (*)	3
MATH 3230	INTRODUCTION TO ANALYSIS (**)	3
MATH 4030	MODERN ALGEBRA (***)	3
Humanities and Fine		3
Foreign Language Course 2120		
	quires MATH 2200	
**MATH 3230: Re	eqiures MATH 2230	
***************************************	ANUIRAS MATH 2020 AF MATH 2220	

***MATH 4030: Requires MATH 2030 or MATH 2230

Poquirod, Pass Pr	axis CORE Academic Skills by the end of this	
semester.	axis CORE Academic Skins by the end of this	
Required: Accepte	ance into Educator Preparation Program.	
Must have 2.75 G		
-	Credits	15
Summer MATH 2350		3
	DIFFERENTIAL EQUATIONS (*) rts Course + U.S. Diversity	3
	uires MATH 1960. MATH 2050	5
recommended bu	•	
	Credits	6
Junior		
Fall		
MATH 3640	MODERN GEOMETRY (*)	3
TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE (**)	3
TED 2400	PLANNING FOR EFFECTIVE TEACHING (**)	6
Social Science		3
*MATH 3640: Rec	uires MATH 2230	
**TED 2400 and 2	2380 must be taken back-to-back, in either a	
Morning or After	noon block.	
	Credits	15
Spring		
MATH 3100 or MATH 4560	APPLIED COMBINATORICS (*) or NUMBER THEORY &	3
OF WATH 4500	CRYPTOGRAPHY	
MATH 3850	HISTORY OF MATHEMATICS (**)	3
TED 3550	SECONDARY CLASSROOM	3
	MANAGEMENT (***)	
TED 3690	LITERACY AND LEARNING (***)	3
Social Science		3
MATH 4050 Lined	IATH 4560: Requires MATH 2230. Ir Algebra can also satisfy this requirement. ires MATH 2050 and MATH 2230.	
	quires MATH 2230.	
	TED 3690 must be taken back-to-back, in or Afternoon block.	
	Credits	15
Summer		
Natural/Physical Sci	ence Course, with lab*	4
Natural/Physical Sci	ence Course	3
*Natural/Physica disciplines	l Science Courses must be in 2 different	
	Credits	7
Senior		
Fall		
MATH 4740	INTRODUCTION TO PROBABILITY AND STATISTICS I (*)	3
SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES (**)	3
TED 4000	SPECIAL METHODS IN THE CONTENT AREA	3
Social Science***		3
	uires MATH 1970 and MATH 2230	
TED 3550	st be taken concurrently with TED 4000 or	
***Social Science	s course must be in a 2nd discipline	

Recommended but not required: Pass Praxis II.		
	Credits	12
Spring		
TED 4600	CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL	12
	Credits	12
	Total Credits	132

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.

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: TED 2100 and TED 2200 require a 2.50 GPA. TED 2380 and TED 2400 as well as Admission into the Teacher Prep Program require a 2.75 GPA.

Graduation Requirements: 2.75 GPA.