



**COLLEGE OF
LETTERS,
ARTS AND
SCIENCES**

Four-Year Degree Plan: Bachelor of Science in Mathematics with Mathematics Education Concentration

Catalog Year: 2023-2024

This is a degree plan for completing a Bachelor of Science in Mathematics with Mathematics Education Concentration in eight semesters. This document is meant to be used as a guide for planning purposes only and is intended for use in consultation with a Professional Academic or Faculty advisor. **Students are responsible for consulting advisors and the [MSU Denver catalog](#) for degree requirements.**

Year One					
Semester 1			Semester 2		
Fall		Credits	Spring		Credits
MTH 1410	Calculus I	4	MTH 2410	Calculus II	4
--	Written Communication I	3	MTH 3210	Probability & Statistics	4
--	Oral Communication	3	--	Written Communication II	3
--	Arts and Humanities I	3	--	Arts and Humanities II	3
--	Historical	3	--	Any course to satisfy hours reqs.	3
Semester 1 Total		16	Semester 2 Total		17

Year Two					
Semester 3			Semester 4		
Fall		Credits	Spring		Credits
MTH 3100	Introduction to Proofs	3	MTH 3140	Linear Algebra	4
MTH 2420	Calculus III	4	MTH 3470	Discrete Math & Modeling	4
ED 3130	Found of ED Psych and Phil	4	EDT 3010	Ed Tech into Teaching	3
ED 3140	Field Experience	1	EDS 3150	Issues in Multicultural Ed	3
--	Natural and Physical Sciences I	3	--	Natural and Physical Sciences II	3
Semester 3 Total		15	Semester 4 Total		17

Year Three					
Semester 5			Semester 6		
Fall		Credits	Spring		Credits
MTH 3110	Abstract Algebra	4	MTL 3620	Math of Secondary Curriculum	4
MTH 3650	Foundations of Geometry	3	***	Math or CS Elective	3
CLD 3510	Perspectives CLD	3	SED 3600	Exceptional Learners	3
EDS 3210	Class Management	3	--	Any courses to satisfy hours reqs.	4
EDS 3240	Field	1			
--	Any course to satisfy hours reqs.	3			
Semester 5 Total		17	Semester 6 Total		14

Year Four					
Semester 7			Semester 8		
Fall		Credits	Spring		Credits
MTL 4630	Teaching Secondary Math	3	MTH 4690	Student Teaching Seminar	12
MTL 3638	Secondary Math Field Exp	2			
EDS 3280	Literacy in CLD Schools	3			
MTH 3640	History of Math	4			
Semester 7 Total		12	Semester 8 Total		12

Program Total: 120

Students must complete all courses in the major with a grade of C- or better. A minor is required for students who are not dual majors or completing a concurrent or second degree. Students can take EDT 3010, CLD 3510, and SED 3600 in a different order. Students must meet with a faculty advisor to declare the mathematics major and to register for Introduction to Proofs (MTH 3100).

Advisor Contact Information: Leah Butler, lbutle14@msudenver.edu, 303-605-7526, or visit [CLAS Academic Advising](#)

Detailed Course Listing

General Studies

--	Written Communication	6
--	Oral Communication	3
--	Arts and Humanities	6
--	Social and Behavioral Sciences	6
--	Natural and Physics Sciences	6
--	Historical	3
--	Global Diversity	3
<i>General Studies Total</i>		33

Mathematics Major Requirements

MTH 1410	Calculus I	4
MTH 2410	Calculus II	4
MTH 2420	Calculus III	4
MTH 3100	Introduction to Proofs	3
MTH 3110	Abstract Algebra I	4
MTH 3140	Linear Algebra	4
MTH 3210	Prob & Stats	4
MTH 3470	Discrete	4
MTH 3650	Geometry	3
MTH 3640	History	4
MTL 3620	Math of Sec. Curriculum	4
MTL 4630	Teaching Sec. Math	3
***	Math or CS Elective	3
<i>Mathematics Major Requirements Total</i>		48

Educational Foundations and Methods

EDS 3130	Found. OF Ed Psych	4
EDS 3140	Field Experience	1
EDS 3150	Issues in Multicultural Ed	3
EDS 3010	Integrating Ed Tech	3
CLD 3510	CLD Learners	3
EDS 3210	Classroom Management	3
EDS 3240	Field Experience	1
SED 3600	Exceptional Learners	3
EDS 3280	Literacy CLD	3
MTL 3638	Math Field	2
MTL 4690	Student Teaching	12
<i>Educational Foundations and Methods Total</i>		38

Program Totals

General Studies Requirements	33
Mathematics Major Requirements	48
Educational Foundations and Methods	38
Unrestricted Electives	7
<i>Minimum Total to Graduate</i>	120