Four-Year Degree Plan: Bachelor of Science in Mathematics with Probability and Statistics Concentration
Catalog Year: 2023-2024

This is a degree plan for completing a Bachelor of Science in Mathematics with Probability and Statistics 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	Fall	Credits	Semester 2	Spring	Credits
MTH 1110	College Algebra for Calculus	4	MTH 1120	College Trigonometry	3
--	Written Communication I	3	--	Written Communication II	4
--	Oral Communication	3	--	Arts and Humanities II	3
--	Arts and Humanities I	3	--	Any courses to satisfy hours reqs.	6
--	Any course to satisfy hours reqs.	3			
	Semester 1 Total	*16*		*Semester 2 Total*	*16*

Year Two

Semester 3	Fall	Credits	Semester 4	Spring	Credits
MTH 1410	Calculus I	4	MTH 2410	Calculus II	4
--	Natural and Physics Sciences I	3	--	Historical	3
--	Natural and Physics Sciences II	1	--	Natural and Physical Sciences III	3
--	Social and Behavioral Sciences I	3	--	Minor II	3
--	Minor I	3	--	Social and Behavioral Sciences II	3
--	Any courses to satisfy hours reqs.	3			
	Semester 3 Total	*17*		*Semester 4 Total*	*16*

Year Three

Semester 5	Fall	Credits	Semester 6	Spring	Credits
MTH 3100	Introduction to Proofs	3	MTH 3210	Probability and Statistics	4
MTH 2420	Calculus III	4	--	Programming elective	4
--	Linear algebra elective	4	--	Ethic Studies & Social Justice	3
--	Minor III	3	--	Minor IV	3
	Semester 5 Total	*14*		*Semester 6 Total*	*14*

Year Four

Semester 7	Fall	Credits	Semester 8	Spring	Credits
MTH 3220	Statistical Methods	4	MTH 4230	Regression & Comput. Statistics	4
MTH 4210	Probability Theory	4	--	Upper division elective	4
--	Minor V	3	--	Minor VI	3
--	Global Diversity	3	--	Any course to satisfy hours reqs.	2
	Semester 7 Total	*14*		*Semester 8 Total*	*13*

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 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 Physical Sciences	6
--	Historical	3
--	Global Diversity	0-3
	General Studies Total	**30-33**

Core Requirements

MTH 1410	Calculus I	4
MTH 2410	Calculus II	4
MTH 2420	Calculus III	4
MTH 3100	Introduction to Proofs	3
	Core Requirements Total	**15**

Specific Degree Requirements

MTH 3210	Probability and Statistics	4
MTH 3220	Statistical Methods	4
MTH 4210	Probability Theory	4
MTH 4230	Regression & Comput. Statistics	4
--	Programming elective	4
--	Linear algebra elective	4
--	Upper division elective	4
	Specific Degree Requirements Total	**28**

Program Totals

General Studies Requirements	33
Ethic Studies & Social Justice	3
Required Pre-Requisites	7
Major Courses	15
Concentration Courses	28
Unrestricted Electives	16
Minor	18
Total to Graduate	**120**