

Department of Mathematics and Statistics

Mathematics and Statistics Minor Requirements

Effective Fall 2024

The Department of Mathematics and Statistics in the School of Letters, Arts and Sciences offers a mathematics minor and a statistics minor, which complement such majors as engineering technology, the other sciences, and economics.

Advising Information

This document, **Minor Requirements**, summarizes the requirements for graduating with a minor in mathematics or statistics.

You are strongly encouraged to talk to one or more of the **faculty advisors** as you plan your academic program.

Further information about current course offerings, as well as email addresses and office hours for faculty advisors, are available through the Department's Web site at

http://msudenver.edu/math

Declaring a Minor

To declare a minor in mathematics or statistics, visit with Academic Advisor Kayla Myburgh.

You should declare your major/concentration/minor at least by the time you have finished the core requirements (listed below), and you should do this by the time you have completed 60 credit hours toward the degree.

Requirements for the Statistics Minor

The statistics minor requires completion of the courses listed below and satisfaction of the minimum grade requirement^{1.}

Prerequisite Courses	Semester Hours		
MTH 1410 Calculus I	4		
D 1 1 G G			
Required Core Courses			
	Matrix Algebra ² 2		
MTH 3210 Probability and	Statistics4		
MTH 3220 Statistical Method	ods4		
MTH 4230 Regression and	Computational Statistics4		
Elective - One of the following courses			
MTH 2520 R Programming	4		
	atistics4		
MTH 3510 SAS Programming4			
MTH 4210 Probability Theory4			
	4		
m . 1	10.00		
Total	18-20		
1			

¹ All courses in this minor must be completed with a grade of "C-" or better. The Statistics Minor cannot be combined with a Mathematics Major.

Requirements for the Mathematics Minor

The mathematics minor requires completion of the courses listed below and satisfaction of the minimum grade requirement. 1

Required Core Courses	Semester Hours
MTH 1410 Calculus I	4
MTH 2410 Calculus II	4

Electives

A minimum of 14 additional hours chosen from CS 1050 and the set of all 2000, 3000, or 4000 level math classes, except for MTH 3240.

- At most one of CS 1050, MTH 2520, MTH 2540 and MTH 3510 may be counted.
- At least 7 hours must be 3000 or 4000 level math classes, not counting MTH 3510.

Only one of three courses, MTH 2140, MTH 3130, or MTH 3140 may be counted.

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² MTH 3130 or MTH 3140 may be substituted.

¹ Students must achieve a cumulative GPA of 2.0 or higher in all MSU Denver courses counted in this minor.

Math Minor Requirements in Other Majors

Meteorology Required Mathematics Minor

Required Mathematics Minor		
Required Courses	Semester Hours	
MTH 1410 Calculus I*	4	
MTH 2410 Calculus II*	4	
MTH 2420 Calculus III		
MTH 3210 Probability and Statistics	4	
MTH 3420 Differential Equations		
Computer Science Programming Elective (one of the following): MTH 2540 Scientific Programming with Python		
Total	24	
*Calculus I and II must be completed with a grad	de of "C-" or better.	

Civil Engineering Technology Optional Mathematics Minor

Required Courses	Semester Hours
MTH 1410 Calculus I*	4
MTH 2410 Calculus II*	4
MTH 2420 Calculus III*	4
MTH 3130 Applied Methods in Linear Algebra	4
MTH 3420 Differential Equations	4
MTH 3210 Probability and StatisticsOR one of the following courses:	4
EET 2350 Advanced Technical Programming	<u></u> 3
CS 1050 Computer Science 1	4
CSS 1247 Introduction to Programming	
Total	23-24
*Calculus I, II, and III must be completed with a grade	e of "C-" or better.

Mechanical Engineering Technology Optional Recommended Mathematics Minor

Required Courses	Semester Hours
MTH 1410 Calculus I*	4
MTH 2410 Calculus II*	4
MTH 2420 Calculus III*	4
MTH 3130 Applied Methods in Linear Algebra	
MTH 3210 Probability and Statistics	4
MTH 3420 Differential Equations	4
And one of the following courses:	
CS 1050 Computer Science 1	4
Or	
CSS 1247 Introduction to Programming	4
Total	28
*Calculus I, II, and III must be completed with a grade of	"C-" or better.

If you would like additional information on this program or other programs offered by the Department of Mathematics and Statistics, please visit the Department's Web site at:

http://math.msudenver.edu/math

Or write or call: Metropolitan State University of Denver Department of Mathematics and Statistics P.O. Box 173362, Campus Box 38 Denver, Colorado 80217-3362 (303) 615-0299