



Department of Mathematics and Statistics
Mathematics and Statistics Minor Requirements
 Effective Fall 2021

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

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** (listed on the back) 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 computer science, mathematics, or statistics, visit with Academic Advisor Leah Butler. 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
MTH 2410 Calculus II	4
Required Core Courses	
MTH 2140 Computational Matrix Algebra.....	2
MTH 3210 Probability and Statistics.....	4
MTH 3220 Statistical Methods	4
MTH 4230 Regression and Computational Statistics.....	4
<i>Subtotal</i>	<i>14-16</i>

Elective

One elective course from the following:

- MTH 2520 R Programming
- MTH 3510 SAS Programming
- MTH 4210 Probability Theory
- CS 1050 Computer Science 1

Subtotal 4

Total 18-20

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

One of the following courses:

MTH 3100 Introduction to Mathematical Proofs.....	3
CS 1050 Computer Science 1	4
CSS 1247 Intro. To Programming: Visual Basic	4
CSS 1510 Computer Programming: FORTRAN	4
<i>Subtotal</i>	<i>11-12</i>

ELECTIVES

A minimum of 14 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 2510, MTH 2520, 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 can be counted.

Electives.....	10
<i>Total</i>	<i>21-22</i>

¹ Each course in the minor must be completed with a grade of "C" or better.

Specified MTH Minors or CS requirements in other majors

Meteorology Required Mathematics Minor

Required Courses	Semester Hours
MTH 1410 Calculus I*	4
MTH 2410 Calculus II*	4
MTH 2420 Calculus III	4
MTH 3210 Probability and Statistics	4
MTH 3420 Differential Equations	4
Computer Science Programming Elective (one of the following)	
CS 1050 Computer Science 1	4
CSS 1510 Computer Programming: FORTRAN	4
<i>Total</i>	22

* Calculus I and Calculus II must be completed with a grade 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 Adv. Matrix Methods for the Phys. Sciences	4
MTH 3420 Differential Equations	4
MTH 3210 Probability and Statistics	4
- or one of the following courses	
CS 1050 Computer Science 1	4
CSS 1247 Intro to Programming: Visual Basic	4
<i>Total</i>	24

* Calculus I, II, and III must be completed with a grade of "C" or better.

Mechanical Engineering Technology Recommended Mathematics Minor

Required Courses	Semester Hours
MTH 1410 Calculus I*	4
MTH 2410 Calculus II*	4
MTH 2420 Calculus III*	4
MTH 3130 Adv. Matrix Methods for the Phys. Sciences	4
MTH 3420 Differential Equations	4
MTH 3210 Probability and Statistics	4
-And one of the following courses	
CS 1050 Computer Science 1	4
CSS 1247 Intro to Programming: Visual Basic	4
<i>Total</i>	28

* Calculus I, II, and III must be completed with a grade of "C" or better.

Electrical Engineering Technology Computer Engineering Technology Concentration

The following math courses are required and are considered part of the EET major requirements:

MTH 1400 Precalculus Mathematics	4
(MTH 1110 and MTH 1120 may be substituted. For students placing directly into MTH 1410, MTH 2420 may be substituted.)	
MTH 1410 Calculus I	4
MTH 2410 Calculus II	4

Required Courses for the Concentration.....	Semester Hours
CS 1050 Computer Science 1	4
CS 2050 Computer Science 2	4
EET 4020 Digital Circuits III	3
EET 4330 Data Communications	3
CS Electives	4

Total..... 18

Academic Advisor

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:
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