



COLLEGE OF  
LETTERS,  
ARTS AND  
SCIENCES

## Four-Year Degree Plan: Bachelor of Science in Statistical Science

Catalog Year: 2023-2024

This is a degree plan for completing a Bachelor of Science in Statistical Science 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 1110	College Algebra for Calculus	4	MTH 1120	College Trigonometry	3
--	Written Communication I	3	MTH 2520	R Programming	4
--	Oral Communication	3	--	Written Communication II	3
--	Arts and Humanities I	3	--	Arts and Humanities II	3
--	Any course to satisfy hours reqs.	3	--	Global Diversity	3
<b>Semester 1 Total</b>		<b>16</b>	<b>Semester 2 Total</b>		<b>16</b>

Year Two					
Semester 3			Semester 4		
Fall		Credits	Spring		Credits
MTH 1410	Calculus I	4	MTH 2410	Calculus II	4
--	Natural and Physical Sciences I	3	--	Historical	3
--	Natural and Physical Sciences II	1	--	Natural and Physical Sciences III	3
--	Social and Behavioral Sciences I	3	--	Minor II	3
--	Minor I	3	--	Social Behavioral Sciences II	3
--	Any course to satisfy hours reqs.	3			
<b>Semester 3 Total</b>		<b>17</b>	<b>Semester 4 Total</b>		<b>16</b>

Year Three					
Semester 5			Semester 6		
Fall		Credits	Spring		Credits
MTH 3210	Probability and Statistics	4	MTH 3270	Data Science	4
MTH 2420	Calculus III	4	--	Linear algebra elective	4
--	Minor III	3	--	Minor IV	3
--	Ethnic Studies & Social Justice	3	--	Any course to satisfy hours reqs.	3
<b>Semester 5 Total</b>		<b>14</b>	<b>Semester 6 Total</b>		<b>14</b>

Year Four					
Semester 7			Semester 8		
Fall		Credits	Spring		Credits
MTH 3220	Statistical Methods	4	MTH 4230	Regression & Comput. Statistics	4
MTH 4210	Probability Theory	4	MTH 4250	Statistical Theory	4
--	Upper division elective	3 or 4	MTH 4290	Senior Statistics Projects	2
--	Minor V	3	--	Minor VI	3
<b>Semester 7 Total</b>		<b>14-15</b>	<b>Semester 8 Total</b>		<b>13</b>

**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 statistical science major and to register for the upper division elective Introduction to Proofs (MTH 3100).

Advisor Contact Information: Leah Butler, [lbutle14@msudenver.edu](mailto: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 or 3
<b>General Studies Total</b>		<b>30 or 33</b>

### Core Requirements

MTH 1410	Calculus I	4
MTH 2410	Calculus II	4
MTH 2420	Calculus III	4
MTH 2520	R Programming	4
MTH 3210	Probability and Statistics	4
MTH 3220	Statistical Methods	4
MTH 3270	Data Science	4
MTH 4210	Probability Theory	4
MTH 4230	Regression & Comput. Statistics	4
MTH 4250	Statistical Methods	4
MTH 4290	Senior Statistics Project	2
<b>Core Requirements Total</b>		<b>42</b>

### Specific Degree Requirements

--	Linear algebra elective	4
--	Upper division elective	3 or 4
<b>Specific Degree Requirements Total</b>		<b>7-8</b>

### Program Totals

General Studies Requirements	33
Ethnic Studies & Social Justice	3
Required Pre-Requisites	7
Major Courses	42
Electives	7 or 8
Unrestricted Electives	9 or 10
Minor	18
<b>Total to Graduate</b>	<b>120</b>

**Department of Mathematics and Statistics**

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