# Department of Mathematics and Statistics <br> Major in Statistical Science 

Effective Fall 2023

## Purposes of the Major

The Department of Mathematics and Statistics offers a Major in Statistical Science. The goals of this program are to

- provide students with broad-based and coherent preparation in the various branches of the statistical sciences
- provide students with the specialized training necessary to begin careers in data analysis, actuarial science, design of experiments, biostatistics, demography, and other areas of probability and statistics
- prepare students for continued study of statistics and its applications at the graduate level

The Department also offers a Major in Mathematics with a Concentration in Probability and Statistics and a Minor in Statistics.

## Advising Information

This document summarizes major requirements for graduating with a Bachelor of Science in Statistical Science. Consult the University Catalog for other graduation requirements, including requirements for all minors.

You are strongly encouraged to talk to a faculty advisor in the area of probability and statistics (listed below) 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 of Mathematics and Statistics website at https://msudenver.edu/math

## Faculty Advisors in Probability and Statistics

| Dr. Shahar Boneh | SI 3018 | $303-615-0740$ | bonehs@msudenver.edu |
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| Dr. Ben Dyhr | SI 3017 | $303-615-0749$ | bdyhr@msudenver.edu |
| Dr. Nels Grevstad | SI 1053 | $303-615-0728$ | ngrevsta@msudenver.edu |
| Dr. Yanxi Li |  |  |  |
| Dr. Elizabeth Ribble | SI 1022 | $303-615-0299$ | emcclel3@msudenver.edu |

## Declaring a Major

To declare a Major in Statistical Science, you will need to meet with a faculty advisor in the Department of Mathematics and Statistics, preferably one of the faculty advisors in probability and statistics. You must declare your major by the time you have completed 60 credit hours toward the degree.


## General Advising Guidelines

The suggestions below will help you complete your course of study in a timely manner. You should make every effort to follow them:

- Note that many mathematics courses are not offered every semester. Also note that, in the semesters in which they are offered, a course may only be offered during the day or in the evening. Course rotations can be found at https://msudenver.edu/math
- Complete the courses needed to satisfy the General Studies requirements as quickly as possible.
- Plan your sequence of courses with prerequisites in mind (see flow chart, below). Note that MTH 3210 is a prerequisite for most upper-division courses in this major.
- It is recommended that you take no more than two upperdivision mathematics courses in the same semester. To do so otherwise may jeopardize your grades and content understanding.


## Requirements for Transfer Students

- In order for courses from another institution to satisfy a requirement for the major, the content must match, not just the name of the course.
- You must meet all the requirements for the program based on all courses taken both at other institutions and at MSU Denver.
- You must take at least eight hours of upper-division mathematics courses at MSU Denver.
- The last 12 hours of coursework toward the degree must be taken at MSU Denver unless you have taken at least 45 hours of coursework at MSU Denver.


## Prerequisite Chart for Courses in the Major in Statistical Science

- Italicized courses are prerequisites that do not count towards the major.
- Boldface courses are required for the major.
- Plain text courses are electives.


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: https://msudenver.edu/math

Or write or call:
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