



**METROPOLITAN  
STATE UNIVERSITY<sup>SM</sup>**  
OF DENVER  
Department of Mathematics  
and Statistics



# MATHEMATICS AND STATISTICS



**ABOUT US** The Department of Mathematics and Statistics is committed to student success. Our faculty bring a rich tapestry of backgrounds, expertise, and perspectives, ensuring a dynamic learning environment. Whether you're here for theoretical math, applied math, math education, or statistics, we offer comprehensive support to help you achieve your goals. From foundational concepts to advanced techniques, we equip students with the skills and knowledge to excel in the classroom and beyond. Join us to explore the boundless possibilities of mathematics and statistics!



**WHAT MAKES US SPECIAL** Our math and statistics program stands out because of its five diverse concentration options. Dive deep into pure math with theoretical mathematics concentration, tackle real-world problems with applied mathematics concentration, or master data analysis with probability and statistics concentration. Students can even prepare to guide future generations with math education concentration or gain a versatile foundation with general math concentration. Your unique interests met, your future empowered!



**MAJOR/MINOR** Are numbers your language? Our programs = Diverse paths, strong foundation, endless possibilities. Learn to solve problems effectively and gain quantitative insights for various fields when you major in Mathematics or Statistical Science. Whether it's theoretical math, applied math, or statistics, we have a tailor-made concentration for you. Also, check out our Mathematics or Statistics minors, if you're interested in building essential math skills that complement any major.



**STUDENT OPPORTUNITIES** Math and stats majors have exciting options! Internships, research, bootcamps, and scholarships pave the way to careers in finance, data science, engineering, and more. Network, participate in events, and explore graduate school. With strong analytical skills, the world is your number!

## INDUSTRY CAREERS

- Actuary
- Data Scientist
- Market Research Analyst
- Educator
- Financial Analyst or Manager
- Project Manager in Technical (and other) Fields

## CONTACT US

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# STATISTICAL SCIENCE | Bachelor of Science

## Experiential Major Map



	First Year	Middle Years	Last Year
<b>Cultivate</b> Learning & Academic Excellence	<ul style="list-style-type: none"> <li>Make sure to attend the orientation session</li> <li>Register for your classes, and schedule a meeting with your assigned academic advisor</li> <li>Connect with your faculty advisor to plan for your Statistical Science major</li> </ul>	<ul style="list-style-type: none"> <li>If you choose, select a minor that complements your Statistical Science degree</li> <li>Schedule meetings with your professional academic advisor and faculty advisor at least once per semester</li> </ul>	<ul style="list-style-type: none"> <li>Meet with your academic advisor to confirm that you have met all the necessary requirements for graduation</li> <li>Register for a Senior Experience course in the major</li> <li>Apply for graduation!</li> </ul>
<b>Engage</b> Globally and Locally	<ul style="list-style-type: none"> <li>Connect with your professors and inquire about opportunities like upcoming conferences</li> <li>Get involved with an on-campus organization</li> </ul>	<ul style="list-style-type: none"> <li>Reach out to instructors to learn about research opportunities</li> <li>Attend department events, such as, guest speakers and student presentations</li> </ul>	<ul style="list-style-type: none"> <li>Consider participating in events that can help you advance both professionally and personally</li> </ul>
<b>Prepare</b> for Postgraduation Success	<ul style="list-style-type: none"> <li>Opt-In for a Career Peer Mentor for the upcoming academic year</li> <li>Make use of the C2Hub resources, including Career Link and resume support</li> </ul>	<ul style="list-style-type: none"> <li>Connect with the C2Hub regarding Earn &amp; Learn, upcoming events within the area, and workshops, such as time management</li> </ul>	<ul style="list-style-type: none"> <li>Make sure of job fairs</li> <li>Seek advice from your faculty advisor to consider graduate program that align with your interests</li> <li>Attend Job Fairs</li> </ul>

### Academic Success Checklist

- ☐ Discover library resources
- ☐ Book an appointment with your academic advisor
- ☐ Visit the writing and tutoring center
- ☐ Complete FASFA and academic scholarship applications

**Employment in Statistical Science is projected to grow by 6.7% in 2024-2026.**

### Career Development Checklist

- ☐ Update your resume early & often
- ☐ Drop into the C2 Hub's Career Lab
- ☐ Secure an internship or career aligned part time job to develop essential skills for graduation

### Career Information

#### What skills do employers want?

- Analytical skills
- Mathematicians and statisticians use mathematical techniques and models to evaluate large amounts of data
- Communication skills
- Logical-thinking skills

#### This major gives me the skills to:

- Mathematical Reasoning — The ability to choose the right mathematical methods/formulas to solve problems
- Information Ordering — The ability to arrange things/actions in a certain order/pattern according to a specific rule or set of rules
- Complex Problem Solving — The ability to develop and implement solutions to complex problems

#### What careers can I pursue?

- Actuaries
- Data Scientists
- Operations Research Analysts
- Teachers
- Financial Analysts