



**METROPOLITAN
STATE UNIVERSITYSM**
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
- Market Research Analyst
- Financial Analyst or Manager
- Project Manager in Technical (and other) Fields
- Data Scientist
- Educator



CONTACT US

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MATHEMATICS | Bachelor of Science

Experiential Major Map



First Year

Middle Years

Last Year

Cultivate Learning & Academic Excellence

- Attend Orientation
- Register for your classes
- Meet with your assign academic and concentration faculty advisor by using the course rotation guide

- Declare your concentration
- Select a minor that complements your mathematics degree
- Meet with your academic advisor and faculty advisor at least once per semester

- Meet with your academic and faculty advisor to confirm graduation requirements are met
- Ensure that you are registered for a Senior Experience course in your concentration
- Apply for graduation!

Engage Globally and Locally

- Connect with your professors to inquire about opportunities like upcoming conferences
- Get involved with an on-campus organization

- Reach out to instructors to learn about research opportunities
- Attend department events, such as, guest speakers and student presentations

- Consider participating in events that can help you advance both professionally and personally

Prepare for Postgraduation Success

- Opt-In for a Career Peer Mentor for the upcoming academic year
- Make use of the C2Hub resources, including Career Link and Resume support

- Connect with the C2Hub regarding Earn & Learn, upcoming events within the area, and workshops, such as time management

- Make use of job fairs
- Seek advice from your faculty advisor to consider graduate programs that align with your interests

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 Mathematics is projected to grow by **6.3%** 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

