School of Natural Sciences and Mathematics

Master of Science in Mathematics

UTD

Program Description

The Master of Science in Mathematics degree program balances applied and theoretical coursework—along with numerous elective courses in specialized subjects and subfields—so that students can study the subdiscipline of their choice and tailor their educational experience to match their career aspirations.

Developed by top-tier faculty at the University of Texas at Dallas, the program allows students to choose one of four specialized tracks and prepares them for doctoral study or careers that require advanced mathematical training:

Mathematics track: Students who choose this track take courses in the pillars of mathematics and develop sophisticated mathematical skills.

Applied Mathematics track: Students in this track study both foundational mathematics and its modern applications.

Mathematics for Decision and Engineering Sciences track: Students who choose this track take courses in foundational mathematics and its applications in finance, decision sciences, and engineering.

Data Science track: Students who choose this interdisciplinary track take a balanced mix of courses in Statistics, Computer Science and Mathematics, equipping them with the knowledge and experiences they'll need to pursue careers related to Big Data.

Benefits

The Mathematics master's program ensures that students gain a broad understanding of the field, apply their knowledge and analytical skills to create effective and novel solutions to practical problems and communicate and work effectively in collaborative environments.

Other benefits include:

- *World-Class Faculty*: The program is led by faculty of the School of Natural Sciences and Mathematics who are widely cited experts in their respective fields.
- *Comprehensive Curriculum*: Courses in the Mathematics master's program will introduce students to new ideas, technologies, and competencies while preparing them to succeed in competitive, ever-changing industries.
- *Facilities*: A cluster of buildings and research labs on the northwest side of campus comprise the over 300,000-square-foot space where students can explore the sciences including the famous Natural Sciences and Research Lab – the "mermaid building" and the Sciences Building. Opened in 2020, the 186,000-square-foot Sciences Building is home to state-of-the-art labs for advanced research in mathematical, biological, and physical sciences.
- *Location*: Situated in the greater Dallas region—recently rated by *Forbes* magazine as the #1 "Best City for Jobs"—UT Dallas provides students with easy access to employers and internship opportunities, not to mention a large and supportive alumni population.

Career Opportunities

With the opportunity to tailor their education to fit their career aspirations, graduates of the

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Mathematics master's program go on to pursue a wide variety of professional careers, such as:
- Professors at academic institutions
- Professionals in industry, government, or finance organizations
- Researchers in both public and private sectors

Marketable Skills

Students take a number of courses in advanced mathematics which prepare them for pursuing jobs in a variety of fields which require sophisticated analytical skills in business, industry, government, and academia.
- Creative and critical thinking; specialized knowledge of mathematical theories, methods, tools and practices. Advanced understanding of mathematical and technical language and how to use it.
- Ability to analyze and interpret large quantities of data; ability to interpret mathematical results in real-world terms; ability to communicate mathematical ideas to others clearly and succinctly.
- Ability to construct logical mathematical arguments and conclusions with accuracy and clarity; ability to work on intellectual challenges.

Application Deadlines and Requirements

Applicants to the Mathematics master's degree program should have:

- A bachelor's degree or its equivalent. Students lacking undergraduate prerequisites for graduate courses in their area must complete these prerequisites before joining the program.
- There is no GPA cutoff for admission to the program. However, GPA is used in conjunction with other measures of student proficiency to determine the students' potential for success in the graduate program.
- Test Scores: Currently optional.
- Letters of Recommendation: Applicants must submit three letters of recommendation from individuals able to judge the candidate's potential for success in the master's degree program.
- International applicants must submit a TOEFL score of at least 80 on the internet-based test. Scores must be less than two years old. See the Graduate Catalog for additional information regarding English proficiency requirements for international applicants.