

School of Natural Sciences and Mathematics

Master of Science in Statistics



Program Description

Developed by top-tier faculty at the University of Texas at Dallas, the Master of Science in Statistics degree program balances applied and theoretical coursework—along with numerous elective courses in specialized subjects and subfields—so that students acquire advanced data analysis training and the kinds of sophisticated skillsets that prepare the way for high-level careers in corporate, nonprofit or governmental organizations.



Students in the Statistics program can tailor the curriculum to their interests and career aspirations by choosing one of three tracks:

- **Statistics track:** Students who pursue this track receive a solid foundation and deep background in theoretical and applied statistics, making it possible for them to pursue doctoral education or enter the job market.
- **Applied Statistics track:** The Applied Statistics Track is typically for students who wish to enter the job market after completing the master's degree program. This track is particularly popular among students who already have a background in another discipline but would like to build expertise in statistics to enhance their employment opportunities.
- **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 Statistics 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 Statistics 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.

Contact Information

Angie Bustamante

Email: Angie.Bustamante@utdallas.edu

utdallas.edu/math/graduate

Career Opportunities

With the opportunity to tailor their education to fit their career aspirations, graduates of the Statistics master's program go on to pursue a wide variety of professional careers in both public and private sectors in roles such as:

- Statisticians
- Biostatisticians
- Data scientists
- Quantitative analysts
- Managers
- Actuaries
- Researchers

Marketable Skills

The Statistics MS program offers a balanced list of applied and theoretical courses in Probability, Statistics, Data Analysis, Mathematics and Computer Science. Students acquire the necessary skills to prepare them for careers in fields that require sophisticated data analysis skills.

- Creative and critical thinking; specialized knowledge of statistical theories, methods, tools and practices; advanced understanding of statistical and technical language and how to use it; ability to analyze and interpret large quantities of data.
- Ability to interpret statistical results in real-world terms; ability to communicate statistical ideas to others clearly and succinctly.
- Ability to construct logical statistical arguments and conclusions with accuracy and clarity; proficiency in computer programming languages including R and SAS; ability to work on intellectual challenges.

Application Deadlines and Requirements

Please take note of all application deadlines and visit the Apply Now webpage to begin the application process. See the Department of Mathematical Sciences graduate programs website for additional information.

Applicants to the Statistics 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.
- GPA: 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.

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The University of Texas at Dallas
800 W. Campbell Rd., FN32
Richardson, TX 75080-3021
jindal.utdallas.edu

utdallas.edu