Bachelor of Science/Bachelor of Arts in Mathematics

Mathematics is essential for formulating and expressing ideas in science and engineering. As society becomes more sophisticated and technical, mathematics plays an increasingly important role in other areas, such as business and the social sciences. As probably the oldest and most basic science, it provides the key to understanding the major technological achievements of our time.

Programs in Mathematical Sciences

Students seeking a degree in mathematics may choose from a variety of courses, which allow for flexibility and specialization so that students can better adapt their educational experience to further their academic goals. Students entering the field of mathematics at UT Dallas are prepared not only for careers in these areas, but also in numerous other professions that require expertise in mathematics.

Students who pursue a BS degree in mathematics choose a specialization in either mathematics, statistics or applied mathematics.

- Mathematics: For students interested in a career in mathematics and for those who choose to continue their education at the graduate level in mathematics, applied mathematics, mathematics education or disciplines, such as statistics, that use mathematics.
- Statistics: For students interested in probability and statistical models and their use in data analysis and decision making; for students interested in continuing on to graduate work in statistics, biostatistics, actuarial science and other statistics-related areas.
- Applied Mathematics: For students interested in mathematics for the purpose of using it broadly in various application areas and for students interested in continuing on to graduate work in applied mathematics or related areas.

Students who pursue a BA degree in mathematics generally use mathematics as background for study in fields such as arts and technology, education, engineering or science.

Students interested in obtaining either a BS or BA in mathematics and teacher certification in the state of Texas should consult the UTeach Dallas office or the Office of Teacher Education for specific requirements as soon as possible after formal admission to the University.

Career Potential

UT Dallas graduates with a degree in mathematics leave the university well prepared for graduate school or careers in a business or technical environment. Available emphases in statistics and mathematics ensure that candidates can tailor their future career by having targeted their educational background to their subdiscipline of choice. Based upon factors such as work environment, income, hiring outlook and stress, jobs as a mathematician, statistician and actuary consistently appear among the most highly ranked careers.

For example, in CareerCast’s Jobs Rated Almanac, the top four jobs according to their 2015 rankings were:
1. Actuary
2. Audiologist
3. Mathematician
4. Statistician


The University’s Career Center is an important resource for students pursuing their careers. Licensed counselors are available to provide strategies for mastering job interviews, writing professional cover letters and resumes and connecting with campus recruiters, among other services.

Mathematical Sciences at UT Dallas

Students must take 120 hours to graduate: 42 from the University’s core curriculum and 48 hours in the major, plus elective requirements, where students can tailor their learning experience more closely to their interests.

Fast-Track

The Fast-Track Program enables exceptionally gifted undergraduate students to include master’s level courses in their undergraduate degree plans. The hours required to complete the master’s degree are reduced by the number of Fast-Track graduate hours completed.

High School Preparation

Students preparing for study in mathematical sciences at UT Dallas should have a strong interest in mathematics and solid study habits. A sturdy foundation in upper-level mathematics will help ensure a smooth transition into the rigors of studying mathematics at UT Dallas.

Find out more about mathematics in the region via the Metroplex Math Circle: metroplexmathcircle.wordpress.com
School of Natural Sciences and Mathematics

UT Dallas’ School of Natural Sciences and Mathematics offers degree programs for undergraduate and graduate students in biology, chemistry, geosciences, mathematics and physics. In addition to regular coursework, undergraduates are encouraged to participate in research alongside the faculty and graduate students. From the world-renowned Alan G. MacDiarmid NanoTech Institute, headed by Dr. Ray Baughman, to the William B. Hanson Center for Space Sciences — where Dr. John Hoffman helped discover water on Mars — the science education at UT Dallas is a hands-on, high quality experience for undergraduates and graduate students alike.

The UTeach Dallas program offers students the opportunity to complete the requirements for high school teacher certification along with their regular BS or BA degrees.

Quick Facts about the School of Natural Sciences and Mathematics

- Established in 1975.
- Six departments.
- More than 3,100 students.
- 26 degrees offered.
- Faculty include a Nobel Prize winner and a member of the National Academy of Engineering.

Degrees Offered

**Bachelor of Science:** Actuarial science, biochemistry, biology, chemistry, geosciences, mathematics, molecular biology, physics

**Bachelor of Arts:** Biology, chemistry, mathematics, physics

**Master of Science:** Actuarial science, bioinformatics and computational biology, biotechnology, cell and molecular biology, chemistry, geosciences, mathematics, physics

**Master of Arts:** Teaching in mathematics education, teaching in science education

**Doctor of Philosophy:** Cell and molecular biology, chemistry, geosciences, mathematics, physics

Certificates

Postbaccalaureate certificate in biomedical science

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