The Mathematics MS degree curriculum at The University of Texas at Dallas strikes a balance between theoretical and applied courses and offers attractive electives. To satisfy the degree requirements, the curriculum currently offers a choice between four tracks:

**Mathematics track:** Students who choose this option pursue courses in the pillars of mathematics. Graduates may pursue a PhD in Mathematics or jobs in the industry requiring sophisticated mathematical skills.

**Applied Mathematics track:** Students who choose this option pursue courses in foundational mathematics and its modern applications. Graduates may pursue a PhD in mathematically oriented science or jobs in industry requiring sophisticated mathematical skills.

**Mathematics for Decision and Engineering Sciences:** Students who choose this option pursue courses in foundational mathematics and its applications in finance, decision sciences, and engineering. Graduates may pursue a PhD in mathematically oriented science or jobs in finance and engineering sectors.

**Data Science track:** Students who choose this interdisciplinary track take a balanced mix of courses in statistics, computer science and mathematics in order to become a data scientist and take on the challenges of Big Data. Upon graduation, these students seek employment or may continue into a PhD program in data science.

**Program Description**
The MS in Mathematics requires the completion of a minimum of 36 semester credit hours. For complete admission and degree requirements, view the Graduate Catalog at [catalog.utdallas.edu](http://catalog.utdallas.edu).

**Career Opportunities**
Graduates of the program seek positions such as: professional in industry, government, consulting firm or financial firm, and teacher in community college. Available emphases allow candidates to tailor their future careers by having targeted their educational background to their subdiscipline of choice. The job of a mathematician consistently appears among the top jobs in the rankings of 200 jobs by CareerCast’s *Jobs Rated Almanac* based upon factors such as work environment, income, hiring outlook and stress.

For more information about careers in mathematics, view the career page of American Mathematical Society at [http://www.ams.org/profession/career-info/career-index](http://www.ams.org/profession/career-info/career-index).

**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.