

# ACCELERATED BACHELOR OF SCIENCE IN MATHEMATICS / MASTER OF SCIENCE IN MATHEMATICS

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**Web Site:** <https://twu.edu/mathematics/accelerated-bachelor-to-masters-in-mathematics/>

## Marketable Skills

Defined by the Texas Higher Education Coordinating Board's 60x30 Strategic Plan (<https://reportcenter.highered.texas.gov/agency-publication/miscellaneous/theqb-60x30-strategic-plan/>) as, "Those skills valued by employers that can be applied in a variety of work settings, including interpersonal, cognitive, and applied skills areas. These skills can be either primary or complementary to a major and are acquired by students through education, including curricular, co-curricular, and extracurricular activities."

## Degree Skills

- a. Apply mathematical theories and techniques to the solution of practical problems in business, engineering, the sciences, or other fields.
- b. Develop mathematical or statistical models of phenomena to be used for analysis or for computational simulation.
- c. Determine appropriate methods for data analysis.
- d. Perform computations and apply methods of numerical analysis to data.
- e. Demonstrate personal accountability and work habits, integrity, and ethical behavior.
- f. Assemble sets of assumptions and explore the consequences of each set.
- g. Proficient in the software tools to achieve the skills listed, such as Matlab and R, SAS, SPSS, modeling software.