

MASTER OF SCIENCE IN MATHEMATICS

Web Site: <https://twu.edu/mathematics/graduate-programs/>

Marketable Skills

Defined by the Texas Higher Education Coordinating Board's 60x30 Strategic Plan (<https://reportcenter.highered.texas.gov/agency-publication/miscellaneous/the60x30-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."

1. Apply mathematical theories and techniques to the solution of practical problems in business, engineering, the sciences, or other fields.
2. Develop mathematical or statistical models of phenomena to be used for analysis and computational simulation.
3. Determine appropriate methods for data analysis.
4. Develop new principles and new relationships between existing mathematical principles to advance mathematical science.
5. Disseminate research by writing reports, publishing papers, or presenting at professional conferences.
6. Demonstrate personal accountability and work habits, integrity, and ethical behavior.
7. Proficient in the software tools to achieve the skills listed, such as Matlab, R, SAS, or SPSS, and LaTeX.