

# MASTER OF SCIENCE IN INFORMATICS (DATA SCIENCE/DATA ANALYTICS)

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**Web Site:** <https://twu.edu/informatics/graduate-program/>

## Marketable Skills

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

- a. Work as a member of a project team to coordinate database and project development and determine project scope and limitations.
- b. Develop and implement procedures for data management, data storage and retrieval, distributed systems, evaluating data quality, data security, data transfer, data analysis, modeling, and visualization.
- c. Plan, coordinate, and implement security measures to safeguard information in computer files against accidental or unauthorized damage, modification, or disclosure.
- d. Disseminate research by writing reports, publishing papers, or presenting at professional conferences.
- e. Design, create, and administer a computer network.
- f. Demonstrate personal accountability and work habits, integrity, and ethical behavior.
- g. Proficient in the software tools to achieve the skills listed, including but not limited to Java, Python, Perl, SQL, NoSQL, R, Microsoft Project, Microsoft Visio, Tableau, SAS, or SPSS.