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

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.