

Spring 2023 Common Syllabus
AIST 6410 Data Management: Databases, Informatics, Data Science

Catalog Description

Exposes students to concepts and techniques of managing data (accessing data, data governance, data security & access control), informatics (processing data for storage and retrieval), and data science (processes and systems to extract knowledge or insights from data).

Learning Outcomes

Students demonstrate understanding of the managerial, governance, and security perspectives for administering data and related applications.

Students can query and analyze relational and 'no sql' data using common tools and standards.

Students demonstrate understanding of relational data models, normalization, and database structures.

Students demonstrate capability with non-relational data stores and non-traditional data types (temporal data, geographic data, images).

Students can obtain data from a variety of sources and manipulate (match, merge, cleanse) it for use in analysis.

Students can process data to illuminate patterns and provide organizational intelligence using several standard, modern approaches.

Students can administer and secure data stores and manage data integrity.

Course Methods

Course content will be delivered asynchronously online as recorded lectures and demos, designated readings and study materials, and graded assignments consisting primarily of hands-on activities (with results delivered via our course management system) and some online quizzes. There will be no cost for textbooks or materials.

For questions or more details please contact the instructor Todd Schultz at email tschultz@augusta.edu