

Course: MINF4610 Applied Data Management (Revised 2009)

Description Designing, developing, and maintaining business data resources is treated, emphasizing immediate productivity in use of widely available software within a structured development method.

Learning Outcomes Students will build and demonstrate knowledge and basic skills related to

- Data query: Creation and automation of select and update queries including exposure to parameterization, multi-record processing, joins, transactions, stored procedures.
- Data structures: Instantiation of table structures, controls, relationships, and trial data from specifications.
- Data models: Development and communication of normalized relational data models from use cases, requirements, and other descriptive documentation.
- Data maintenance: Understanding and deploying sound procedures for indexes, triggers, backup/restore, and archiving.
- Data use: Developing and consuming data resources as components in a tiered development and business intelligence.

Relative Topic Emphasis (45 Hour Semester)

Topic	Class Hours
Single & multi-record create, read, update, delete operations	10.0
Database transactions and stored procedures	5.0
Data definition techniques	5.0
Data modeling and normalization	10.0
Maintaining & optimizing data resources	5.0
Applied use of data resources	10.0
Total Class Hours	45.0

