

DATX 5801 - Data Management

Fall 2026 Syllabus, Section 01, CRN 41853,

Credit hours: 3

Instructor

Rachel Gramann

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Public Instructor Information

Instructor Title: Dr. Rachel Gramann

Instructor Professional Qualifications:

- DBA - Capella University
- MBA - Capella University
- BS Computer Science - Carroll University

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Course Description

5801. Data Management. This course covers the basic concepts of database systems and emphasizes the real-world database applications relevant to the management of data in an organization environment. The topics include (not limited to) database environment, database development, relational database management systems, SQL/NoSQL data management language, data normalization, data warehousing, and internet database environment. Credit will not be given for both DATX 5801 and CSIS 3722. Prereq.: Junior standing or higher and GPA of 2.5 or higher. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	A Guide to SQL, 10th Edition	Mark Shellman, Hassan Afyouni, Philip J. Pratt, Mary Z. Last	9780357419731

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1	Introduction to Databases	Discussion 1; Module 1 Quiz; Module 1 Use It; Module 1 Case Exercise: KimTay Pet Supplies
8/31	Chapter 2	Database Design Fundamentals	Module 2 Quiz
9/7	Chapter 3	Creating Tables	Discussion 2; Lab 3-1: KimTay Pet Supplies
9/14	Chapter 3	Creating Tables	Module 3 Quiz
9/21	Chapter 4	Single-Table Queries	Discussion 3; Module 4 Quiz
9/28	Chapter 4	Single-Table Queries	Lab 4-1: KimTay Pet Supplies; Module Lab Assessment 1
10/5	Chapter 5	Multiple-Table Queries	Discussion 4; Module 5 Quiz
10/12	Chapter 5	Multiple-Table Queries	Lab 5-1: KimTay Pet Supplies; Graduate Project 1
10/19	Chapter 6	Updating Data	Discussion 5; Module 6 Quiz

10/26	Chapter 6	Updating Data	Lab 6-1: KimTay Pet Supplies; Module Lab Assessment 2
11/2	Chapter 7	Database Administration	Discussion 6; Module 7 Quiz
11/9	Chapter 7	Database Administration	Lab 7-1: KimTay Pet Supplies
11/16	Chapter 8	Functions, Procedures, and Triggers	Discussion 7; Module 8 Quiz
11/23	Thanksgiving Break	No class	
11/30	Chapter 8	Functions, Procedures, and Triggers	Lab 8-1: KimTay Pet Supplies
12/7	Chapter 8	Functions, Procedures, and Triggers/Course Wrap Up	Module Lab Assessment 3; Graduate Project 2

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.