

CSIS 3722 - Development of Databases

Fall 2026 Syllabus, Section 03, CRN 41059,

Credit hours: 3

Instructor

Rachel Gramann

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Public Instructor Information

Instructor Title: Dr. Rachel Gramann

Instructor Professional Qualifications:

- DBA - Capella University (2022)
- MBA - Capella University (2018)
- BS Computer Science - Carroll University (2007)

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Course Description

3722. Development of Databases. This course covers concepts about data modelling, relational data model, Structured Query Language (SQL), relational database design and transaction processing. Storing, retrieving, updating and displaying data using Structured Query Language (SQL), functions and triggers. Secure operations performed by database administrators. Prereq.: C or better in CSIS 1590 or (CSIS 1595+CSIS 1595L) or (CSIS 2605+CSIS 2605L) or (CSIS 2610+CSIS 2610L). 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
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		
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

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.