

CSIS 3722 - Development of Databases

Fall 2026 Syllabus, Section 01, CRN 40797,

Credit hours: 3

Instructor

Todd Jones

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Public Instructor Information

Instructor Title: Senior Lecturer

Instructor Professional Qualifications: Master of Computing Information Systems, Youngstown State University, 2019

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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	Guide to SQL	Shellman, Mark / Pratt, Philip J. / Last, Mary Z.	9780357361689

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

Tentative Course Schedule

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24		Introduction	
8/31	Chapter 1	Databases and SQL Introduction	
9/7	Chapter 2	Database Design Fundamentals	What is Data?
9/14	Chapter 2	Database Design Fundamentals	Storing Data
9/21	Chapter 3	Creating Tables	Data Loaded into SQL Developer
9/28	Chapter 3 +4	Viewing Table Data, Inserting New Data	
10/5	Chapter 4	Single Table Queries	Chapter 4 Book Work
10/12	Chapter 4	More on Single Table Queries	
10/19	Review	Review	Exam 1 Chapter 1 - 4
10/26	Chapter 5	Multitable Queries	Chapter 5 bookwork
11/2	Chapter 5	Nesting Queries	Nesting Queries
11/9	Chapter 5 + 6	Joins	Joins
11/16	Chapter 7	Updating, Deleting, Altering Data	Advanced Joins
11/23	Chapter 8	Transactions, Database Administration	Review
11/30	Chapter 8	Functions, Procedures and Triggers, PLSQL	Exam 2 Chapter 5 - 8
12/7	Finals	Finals	Finals

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.