Database Systems
Course Syllabus

Course Description

This course emphasizes the concepts and structures necessary for the design and implementation of database management systems. Topics include data models, data normalization, data description languages, query facilities, file organization, index organization, file security, data integrity, and reliability.

Course Information

Course Title: Database Systems

Course Number: CS/SE 4347.001

Term: Fall 19

Meeting At: Monday & Wednesday @ 10:00 - 11:15 in ECSS 2.311

Credit Hours: 3

Instructor's Contact Information

Name: Dr. Michael Christiansen

Office Number: 972 883 6906 Note: email is only reliable method of leaving messages

Email: michael.christiansen@utdallas.edu

Office: ECSS 4.201

Office Hours: Monday and Wednesday 11:30 - 12:30 and by appointment.

eLearning Site: Our eLearning site contains all announcements, slides, assignments, and other materials for this course.

Teaching Assistant Contact Information

Name: TBD

Office Hours: TBD

Office: TBD

Email Address: TBD

Academic Calendar

- Classes Start: 8/19
- Last Day of Class: 12/4
- Midterm Exam: Wednesday 10/2 During Class
- Final Exam: TBD

See the official UTD calendar for university holidays and closings here.

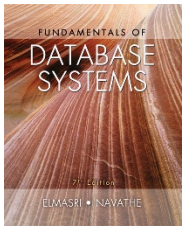
Course Prerequisites

1. CS/CE/SE 3345 Data Structures

Course Learning Goals

1. Understand Data Modeling.
2. Understand the Relational Model and theory.
3. Understand normalization of relations.
4. Gain a fundamental understanding of SQL programming.
5. Understand data organization methods, indexing, and query processing.
6. Understand database integrity and concurrency.

Required Textbook



Fundamentals of Database Systems Seventh Edition.
Ramez Elmasri & Shamkant B. Navathe.
ISBN-13: 978-0133970777

Other reading materials as provided in the “Supplemental Materials” folder of the eLearning site.

Grading Policy

The grade will be determined as follows:

- The final course grade will be calculated against the following factors:

Programming Projects	20 %
Homework Assignments	10 %
SQL Assignments	10%
Class Attendance	5 %
Midterm Exam	20 %
Final Exam	35 %

- **No bonus work, make-up work, dropped scores, or other means of raising your grade will be provided.**

Classroom Policy

Students with four consecutive unexcused absences will fail the course.

Students with three consecutive unexcused absences will have their final grade reduced by one letter grade for every infraction.

Attendance will be taken and verified for every class meeting. Cheating on the roll will be reported as academic dishonesty.

University policies can be found by visiting http://go.utdallas.edu/syllabus-policies. The materials in this syllabus are subject to change at the professor's discretion.