Database Systems
Course Syllabus

Fall 21 UTD Guidelines

Our eLearning contains the document 'UTD Guidelines Fall 21' which provides the policy recommendations we will be following in this course. Please review this document for answers to questions regarding attendance, COVID accommodations, etc.

Class Attendance Policy

In-class (not remote) attendance will determine 5% of the final course grade. Each lecture will include an attendance sheet to be signed only by students attending that day. Students that have another student to sign in will be reported to the University for Academic Dishonesty.

The university has asked instructors to reduce the density of classroom populations by having students attend alternating live and remote lectures. The policy is that students that attend at least 50% of the live lectures will receive the full 5% (5 points).

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 4347.504

Term: Fall 21

Meeting At: Tuesday and Thursday 5:30-6:45PM in MC 2.410

Credit Hours: 3

Instructor's Contact Information

Name: Dr. Michael Christiansen

NetID: mgc013000

Email: michael.christiansen@utdallas.edu

Office: TBD

Office Hours: Tuesday and Thursday 4:00-5:00PM and any time I am available via MS Teams.

Teaching Assistant Contact Information

Name: TBD

Office Hours: TBD

Office: TBD

Email Address: TBD

Academic Calendar

• Classes Start: 8/24

• Last Day of Class: 12/2

• Midterm Exam: Friday, Oct 8 in the UTD Testing Center. Study guide will be provided.

• Final Exam: Friday, Dec 10 in the UTD Testing Center. Study guide will be provided.

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

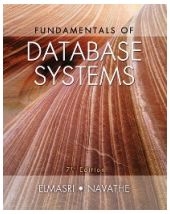
Course Prerequisites

1. CS/CE/SE 3345 Data Structures

Course Learning Objectives

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 Sixth 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	25 %
Homework Assignments	10 %
SQL Assignments	10%
Class Attendance (In Person)	5%
Midterm Exam	20 %
Final Exam	30 %

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

Undergraduate Grade Ranges and GPA Points

	Score	Letter Grade	GPA
A+	X ≥ 97	A+ [1]	4.00
A Excellent	93 ≥ X < 97	A	4.00
A-	90 ≥ X < 93	A-	3.67
B+	87 ≥ X < 90	B+	3.33
B Good	83 ≥ X < 87	B	3.00
B-	80 ≥ X < 83	B-	2.67
C+	77 ≥ X < 80	C+	2.33
C Fair	73 ≥ X < 77	C	2.00
C-	70 ≥ X < 73	C-	1.67
D+	67 ≥ X < 70	D+	1.33
D Poor	63 ≥ X < 67	D	1.00
D-	60 ≥ X < 63	D-	0.67
F Failure	< 60	F	0.00

Classroom Policy

Students are encouraged to attend the live lectures in accordance with university policy.

Students will be required to interact with their assigned project teams regardless of their locality or status as an asynchronous student.

University policies can be found online and in the document 'UTD Guidelines Fall 21.docx'.

The materials in this syllabus are subject to change at the professor's discretion.