

Introduction to 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 4347.001
Term: Fall 2016
Meeting At: Mon & Wends 10:00-11:15 @ SOM 12.210
Credit Hours: 3

Instructor's Contact Information

Name: Dr. Michael Christiansen
Phone Number: 972 883 6909 Note: email is only reliable method of leaving messages
Email Address: michael.christiansen@utdallas.edu
Office: ECSS 4.201
Office Hours: Tuesday and Thursday 1:00-2:00, and by appointment.
Call my office at 972 883 6909 and if I'm in you are free to stop by.
eLearning Site: Our eLearning site contains all announcements, slides, assignments, and other materials for this course.

TA Contact Information

Name: TBD
Office Hours: TBD
Office: TBD
Email Address: TBD

Academic Calendar

- Classes Start: 8/22
- Last Day of Class: 12/7
- Midterm Exam: TBD
- Final Exam: TBD

See the official UTD calendar for university holidays and closings [here](#).

Course Prerequisites

1. CS/CE/SE/TE 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 **Sixth Edition**.
Ramez Elmasri & Shamkant B. Navathe.
ISBN-13: 978-0136086208



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 / Assessments	10 %
Class Attendance	5 %
Midterm Exam	30 %
Final Exam	30 %

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

Department Classroom Policy

Students that miss four consecutive classes will fail the course.

Students that miss three consecutive classes will have their final grade reduced by one letter grade for every infraction.

Attendance will be taken and verified for every class meeting. If cheating on the roll is discovered, e.g. a student signing for another, there will be no credit given to the class for that day's attendance.

Laptop and phone usage will not be allowed during class.

**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.**