

CS 442 Database Management Systems Syllabus

The syllabus below describes a recent offering of the course, but it may not be completely up to date. For current details about this course, please contact the course coordinator. Course coordinators are listed on the course listing for undergraduate courses and graduate courses.

Text Books

Required

R. Ramakrishnan and J. Gehrke , *Database Management Systems, 3rd ed.* , McGraw-Hill, 2002

Week-by-Week Schedule

Week	Topics Covered	Reading	Assignments
1	Introduction	Chapter 1	
2	Entity-Relationship (ER) Model	Chapter 2	Assignment 1
3	Relational Model	Chapter 3	
4	Relational Database Design	Chapter 3	
5	Relational Algebra	Chapter 4	
6	SQL	Chapter 5	Assignment 2
7	SQL	Chapter 5	Midterm
8	Midterm		
9	Database programming	Chapter 5	
10	Functional dependencies	Chapters 19	Assignment 3
11	Schema normalization	Chapter 19	
12	Schema refinement	Chapter 19	
13	XML	Chapter 27	Assignment 4
14	Database security	Chapter 21	Final