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Office Hours: Tuesdays 2:30-3:15 PM and Thursdays after our class
Other times: Please call or send E-mail for appointment

by: Silberschatz, Korth, and Sudrashan
McGraw-Hill, 2006

Other Good Books:
Database Systems: The Complete Book
by: Garcia-Molina, Ullman, Widom
Prentice Hall

Database Management Systems
By: Ramakrishnan and Gehrke
McGraw-Hill

Fundamentals of Database Systems
by: Elmasri and Navathe
Addison Wesley

COURSE CONTENTS:

• Introduction.
• Relational Databases.
• Query languages for relational databases: SQL, Relational Algebra.
• Logic-based querying in deductive databases: Datalog.
• The Entity-Relationship Model.
• Relational database design: Data dependencies, and decomposition theory.
• XML: DTD, XML Schema, XPath, XQuery.
• Selected Topics (Time Permitting): The Semantic Web, Multi-Database Systems, Information Integration and Interoperability.

STUDENT LEARNING OUTCOMES: At the end of this course students will be able to

• Use a commercial database system effectively (create tables, add and modify data, and query the database).
• Design a database system for a given application.
• Our project also provides hands-on experience with database design and implementation, including database access through a web interface.
GRADING SCHEME:

Homeworks and/or quizzes: 15%
Project: 17%
Term paper and presentation: 17%
Test 1: 17%
Test 2: 17%
Test 3: 17%

TEST DATES:
(make-up date for Test 3 is Fri. Dec. 1, 2006, in case UNCG is closed on the regular test date due to inclement weather.)

NOTES:

• Students must have satisfied all prerequisites for this course. If a student does not have the prerequisites, he/she will be automatically de-registered upon discovery of the deficiency.
• The grade you will receive in this course is a function of your numerical marks in the assignments, project, tests AND the overall performance of all students in the course. The marks will be “normalized” to assess a student’s performance. A rough guideline is as follows: 90% to 100%, A; 80% to 89%, B; 70% to 79% C; below 70%, F.
• Students should be present for all tests. No make-up tests will be given.
• I often use email to communicate with you. I will only use your UNCG email addresses. Please make sure to check your messages regularly. If you normally use a different email address, it is your responsibility to forward your UNCG messages to that address.
• You are encouraged to seek information in other books or on the web. BUT you must cite the source if you use any material from other books or the web (for example, in your homework). Otherwise it is considered cheating.
• You are all expected to attend other students presentations.
• Homeworks are due in class.
• A penalty of 20% (of the total homework mark) per day will be levied for late assignments. Late submission of a homework is accepted until it is discussed in class. You are encouraged to turn in homeworks even if you have lost all of its mark due to penalty.
• Computers do break down. In fact they often break down at the worst time. It is your responsibility to be prepared for such accidents, and still meet the deadline for your projects and hands-on assignments. Also note that the labs get very busy at the end of the semester.
• It is a good idea to retain a copy of your works until you receive your final grade for the course.
• Please back up all your computer work.
• Some topics from the text or references will be designated as “reading assignments”. You are responsible to read these topics on your own, and ask questions during my office hours if there are any parts that need clarification.
• For administrative reasons I may need to make copies of some of your works and exams. Please notify me if you wish no copy of your works and tests to be made.
• Academic Integrity Policy will be strictly enforced.