CS 4513 Database
Fall 2010

Instructor: Qi Cheng (qcheng@cs.ou.edu).

Class Time: MW 1:30-2:45, SEC M204.

Office Hours: TW 3-4, DEH 254. Phone: 325-1017.

Topics: Relational Model, SQL, Entity-Relationship Model, Relational Database Design, Storage and File Structure, Indexing, Query Processing, Transactions, Data Analysis and Mining, Information Retrieval and XML.

Required books: Silberschatz, Korth and Sudarshan, Database System Concepts, 6th edition. McGraw Hill. Before the midterm, we cover Chapter (Section) 1, 2, 3, 4, 6.1, 7, 8 in the textbook. After the midterm, we cover Chapter (Section) 9, 10.1, 10.2, 11.1, 11.2, 11.3, 11.4, 11.5, 12, 13, 15, 20, 21, 23.

Herman T. Tavani, Ethics & Technology. Wiley.

Homeworks and Project: Homeworks are due at the beginning of class. Late homework without advance notification will not be accepted. The midterm project should be done using MySQL database management system. There are about 6 quizzes in class. To calculate your final grade, we drop the lowest quiz score.

Grading: Assignments (20%), Quizzes (30%), Midterm Project (20%) and Final Exam (30%).

Student Online Evaluation: The College of Engineering utilizes student ratings as one of the bases for evaluating the teaching effectiveness of each of its faculty members. The results of these ratings are important data used in the process of awarding tenure, making promotions, and giving salary increases. In addition, the faculty members use the evaluation feedback to improve their own teaching effectiveness and programs use the data to assess achievement of a set of learning outcomes. The original request for the use of these forms came from students, and it is students who eventually benefit most from their use. Please take this task seriously, evaluate courses on-line, and respond as honestly and precisely as possible, both to the machine-scored items and to the open-ended questions.

ABET Student Outcomes to be addressed

- A: An ability to apply knowledge of computing and mathematics appropriate to the discipline
- B: An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- C: An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
- F: An ability to communicate effectively with a range of audiences

Special Note: Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible to make necessary accommodations.