CS 405G: Introduction to Database Systems	Fall 2019

Syllabus

Location: Business and Economics Bldg Rm.183
Time: MWF 9:00 AM - 9:50 AM

Instructor

Jinze Liu
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Textbooks

(Required) Fundamentals of Database Systems
by Ramez Elmasri and Shamkant B. Navathe

Description

Study of fundamental concepts behind the design, implementation and application of database systems. Brief review of entity-relationship and in-depth coverage of the relational model including relational algebra and calculi, relational database theory, concepts in schema design and commercial database languages.

Prerequisite

CS 315 and graduate or engineering standing

Needed Skills: Ability to design, experience with web programming and computer hardware organization, ability to program in PHP.

Learning Outcomes

At the conclusion of the course, the successful student will be able to:

1. understand and appreciate the theoretical foundation of database systems
2. write SQL queries of moderate complexity
3. use sound design principles when defining a database
4. understand through hands-on experience the file management techniques used by database systems.

Grading

The grade will be determined by assignments, quizzes, a project, a midterm exam and a final exam. The tentative weights are as follows:

6 Homework assignments	25%
Project	25%
Midterm exam	25%
Final exam	20%
Pop quizzes	5%

Final grades will be assigned according to the following scale:

A=90-100%, B=80-89%, C=70-79%, D=60-69%, E=0-59%.

For graduate students, grade D will automatically be replaced by E. Also, any grade normalization will be done against peer students, i.e. undergraduates will only be normalized with undergraduates, and graduates with graduates. No incomplete grades will be assigned unless there exist exceptional, extenuating circumstances.

All homeworks will be submitted through canvas. Late programs or homework will be penalized 10% per day for each day late. Canvas will not take homework being late for more than 3 days.

Academic Conduct Expectations Students are expected to complete all assignments independently. Honest and ethical behaviors are always expected. There will be no tolerance for plagiarism or other academic misconduct. The minimum punishment is an E grade that cannot be removed by the repeat option. You may read U.K. Student Rights and Responsibilities at `http://www.uky.edu/StudentAffairs/Code` for a detailed description.