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Summer 2005

CS 701: Database Systems and Design I

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CS 701 Database Systems and Design I

Summer Quarter, 2005

Description: An introduction to database design, database system implementation issues and techniques, and advanced data models.

Prerequisite: CS405/605 or equivalent.

Instructor: Dr. Guozhu Dong. 430 RC.

Phone & Email: (937)-775-5066, guozhu.dong@wright.edu

Class details: 6:05-7:20pm T and Th, RC154.

Office hours: 3:00-3:50pm, T and Th. Use e-mail for short questions.

Text Book: Fundamentals of Database Systems, 4th edition, R. Elmasri and S. B. Navathe, Addison-Wesley.

References: Database Management Systems, R. Ramakrishnan and J. Gehrke. McGraw Hill.

Database System Concepts, Silberschatz, Korth, & Sudarshan McGraw Hill.

- Topics:**
- Database design theory and methodology (chapters 10-11).
 - System implementation techniques (chapters 15-19).
 - Object-oriented and extended relational database technology (chapters 20-22).
 - Advanced database concepts and emerging applications (selection of chapters 23-29).

Grading: Midterm 22%, Final 40%, Home work assignments 8%, Project 30%.

Final grade: A=[90,100], B=[80,90), C=[70,80), D=[60,70), F=[0,60).

The project can be either a paper-review or a DB transaction programming; details to be given in project spec.

Academic dishonesty will be punished.

Late home works or projects will not be accepted except for documented medical reasons.

Home work: To facilitate your understanding, you should read the texts and do as many as possible relevant exercises at the end of the chapters that will be covered.

Handouts: Handouts, and other course material will be distributed in class. It is your responsibility to collect them. I plan to make these available in the /nfs/valhalla/users28/cs/gdong/701public directory on gamma. Copies of slides are also available in this directory. You can use ps2pdf on UNIX to convert ps files into pdf.

- Important dates:**
- 7/12, in class midterm.
 - 7/5: Project selection (submit a 1-page summary of your project).
 - 8/16: Project due (before class starts).
 - 6:05-7:20pm, Tuesday, 8/18/05: Final.