

## CS 801 Advanced Database Systems

Spring Quarter, 2009

**Description :** Introduction of current trends and research issues in database systems.

**Prerequisite :** CS701 or an equivalent.

**Instructor :** Dr. Soon M. Chung  
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**Class :** Tu. Th. 6:05-7:20 pm, 054 Rike Hall.

**Office hour :** Tu. Th. 2:30-3:30 pm at 403 Russ or by appointment.  
\*use e-mail for short questions.

**Course Material:** Technical papers/chapters on the following topics:

- Object-Oriented Database
- Query Processing in Distributed Databases
- Replica Control in Distributed Databases
- Parallel Query Processing and Optimization
- Data Mining
- Spatial Databases
- Heterogeneous Multidatabases
- Multimedia Databases
- Multidimensional Hashing
- Data Warehouse

**Reference Book :** R. Elmasri and S. B. Navathe, Fundamentals of Database Systems, Addison Wesley Co., 2007.

**Grading :** A:[85,100], B:[75,85), C:[65,75), D:[55,65), F:[0,55)  
Midterm 30% (5/5 Tu), Final 40% (6/11 Th, 8:00-10:00 pm) and Project 30%

Project is either writing a research proposal or a design and implementation (select by 5/12)

Research proposal 30%

{ papers reviewed 6%, technical quality 8%,  
written presentation 7%, originality 9% }

Design project 30%

{ design 8%, implementation and/or analysis 8%,  
written presentation 6%, discussion 8% }