Course : CS 4092 Database Design **Summer 2018**

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Learning Objectives

1. Students will use a fundamental conceptual modeling technique to capture database requirements in a graphical representation.
2. Students will learn relational database terminology and concepts and derive an implementation schema from their conceptual design.
3. Students will apply relational normalization theory to evaluate good design practices.
4. Students will learn query processing techniques by writing queries using a standard language and studying the impact of physical storage options such as indexing.
5. Students will learn fundamental practices in database systems to ensure transaction concurrency and recovery from failure.

Supplemental Textbooks

Elmasri, R., and S.B. Navathe, *Fundamentals of Database Systems*, Addison-Wesley. (note: copies are on reserve in the Engineering Library.)

Grading:

Course components: Attendence & in-class (5%), Homeworks (10%), Projects (25%), Exams (60%)

Late policy: penalty of 10% per day late.

Important Dates:

- Mid Term 1: 30th May ,2018; in class times.
- Mid Term 2: 6th July ,2018; in class times.
- Final Exam: TBA