CSC 321/621 - Fall ‘16
Database Management Systems

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Course URL: Course materials will be posted on the WFU Sakai site
Office Hours: M,T, R 11am-noon but feel free to stop by any time

Primary Text: Database System Concepts (6th edition), Silberschatz, Korth, Sudarshan
Publisher: McGraw-Hill, 978-0073523323

Grading: Three Tests - 70%
Database programming project(s) - 10%
Homework exercises - 20%

NOTE1: Graduate students in CSC 621 will be expected to do additional exercises, presentations and/or papers. Each exercise required of graduate students will be indicated on the exercise instructions by an asterisk.

NOTE2: If you have a disability that may require an accommodation in this course, then please contact the Learning Assistance Center at (758-5929) within the first two weeks of the semester.

Course objectives: The goals for this course are broad. Each student is expected to gain knowledge of many practical aspects of database management systems, the relational data model, some theoretical aspects of relational database design, and various ways to interface software applications and databases.

Course outcomes: Each student will
1) understand the primary types of database models and how to select the most appropriate model;
2) design conceptual database models using Entity-Relationship techniques;
3) create a logical database model from an Entity-Relationship model;
4) explain the mathematical foundations of the relational database model and how those foundations relate to current database languages and implementations;
5) design relational databases based upon data dependencies;
6) demonstrate the ability to use both basic and advanced SQL to write database queries;
7) demonstrate the ability to develop software applications for accessing databases in a contemporary programming language.