Computing Science Course Outlines

CMPT 354 - D200 Database Systems I

Instructor(s): John Edgar

SFU Surrey

Calendar Objective/Description:
Database Systems I

Instructor's Objectives:
Almost all organizations maintain their data using a database management system (DBMS). This course provides an introduction to DBMS. We focus on the most widely used model: the relational data model. Students will become familiar with the design of database applications and use of databases. We study design tools, database modeling and query languages, including the Structured Query Language (SQL).

Prerequisites:
see go.sfu.ca

Topics:
- Entity-Relationship model
- Relational data model
- Relational algebra and calculus
- Introduction to SQL
- Constraints and triggers
- Database Applications Development
- Normalization
- Introduction to NoSQL

Grading:
To be determined in the first week of classes.
Students must attain an overall passing grade on the weighted average of exams in the course in order to obtain a clear pass (C- or better).

Recommended Books:

Academic Honesty Statement:
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct
Policies (http://www.sfu.ca/policies/gazette/student.html).