Computing Science Course Outlines 2021 Fall

CMPT 354 - D100 Database Systems I

Instructor(s): Jian Pei

Calendar Objective/Description:
Database Systems I

Instructor's Objectives:
This is the introduction course into the general area of data management, which is the core of many applications. We will cover the basic ideas and methodologies of data management in the context of data science and big data.

Prerequisites:
see go.sfu.ca

Topics:
- Introduction to data intensive applications and data management
- Relational model and SQL
- Database design
- Complex data and application design
- Enterprise data infrastructure: data warehouses and data lakes
- Big data analytics and data science

Grading:
To be announced 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).

Required 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).