Computing Science Course Outlines

CMPT 225 - D200 Data Structures/Programming

Instructor(s): John Edgar

Calendar Objective/Description:
Data Structures/Programming

Instructor's Objectives:
This course explores fundamental algorithms and data structures that can help in developing elegant and efficient solutions to complex problems. We will study their specification, analysis, implementation (in C++), experimental evaluation, and applications.

Prerequisites:
see go.sfu.ca

Grading:
Course work will consist of programming assignments, quizzes and exams. The exact marking scheme will be given in the first week of class.

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:
Data Structures and Algorithms in C++ (2nd edition), Michael Goodrich, Roberto Tamassia, David Mount, John Wiley and Sons, 2011, 9780470383278

Reference Books:
Programming: Principles and Practice using C++ (Second Edition), Bjarne Stroustrup, Addison-Wesley, 2014, 9780321992789

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).