CMPT 127 - D200 Computing Laboratory

Instructor(s): Anne Lavergne

Calendar Objective/Description:
Computing Laboratory

Instructor's Objectives:
This course gives a hands-on introduction to programming in C and C++, basics of software development process (design-implementation-testing), essential algorithms and data structures. Guided labs teach the standard tools and students exploit these ideas to create software that works i.e., solves a given problem. To be taken in parallel with CMPT 125. This is a lab-only course and attendance in the lab sessions is "mandatory". **This semester, this course is offered online via the Internet. Therefore, students will need access to a computer, the Internet and a browser application. Other computer-related requirements will be discussed during the semester.

Prerequisites:
see go.sfu.ca

Topics:
- C and C++ programming
- Testing and debugging strategies
- Structured programming using functions
- Compound data types and objects
- Implementation of search and sort algorithms
- Abstract data types and classes
- Practice writing programs to specification
- Recursion
- Empirical performance measurement and comparison with algorithm analysis

Grading:
Students will complete several individual assignments (lab tasks). All assignments are automatically graded by an online server. There will also be weekly exercises as well as "in-lab" lab quizzes.

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).

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 ).