CMPT 471 - D100 Networking II

Instructor(s): Khaled Diab

SFU Burnaby

Calendar Objective/Description:
Networking II

Instructor's Objectives:
This is an advanced undergraduate course in networking. Detailed discussion of various network protocols and architectures will be covered, especially the TCP/IP protocol suite and the design of the Internet. The course involves multiple programming projects and measurement labs. It also includes reading articles about recent topics and trends in networking.

Online offering notes: each student will need a computer with a webcam and a reliable Internet access. The computer should be powerful enough to run 1–2 virtual machines. Lectures will be streamed online during class time, and the recordings will be available after class. There will be in-class activities (e.g., quizzes) during the semester which must be completed during the lecture time (to be discussed in the first week). Students in regions observing different time zones than BC should contact the instructor to attempt scheduling these in-class activities. Students are expected to work in groups for some activities.

Prerequisites:
see go.sfu.ca

Topics:
- Networking Basics: Internet Architecture and TCP/IP Stack
- Multimedia Networking
- Data Center Networking
- Software Defined Networks
- Virtual Networks and Overlays
- Wireless Networks

Grading:
Quizzes during lecture time, Programming assignments, written homework, readings, and a final project. Details to be discussed in 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:

Reference 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).