CMPT 471 - D100 Networking II

Instructor(s): Mohamed Hefeeda

SFU Burnaby

Calendar Objective/Description:
This course covers the fundamentals of higher level network functionality such as remote procedure/object calls, name/address resolution, network file systems, network security and high speed connectivity/bridging/switching.

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.

Prerequisites:
CMPT 300 and 371.

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

Grading:
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 ).