CMPT 471 - D100 Networking II

Instructor(s): Mohamed Hefeeda

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).