CMPT 471 - D100 Networking II

**Instructor(s):** Janice Regan

**Calendar Objective/Description:**
Networking II

**Instructor's Objectives:**
Covers the operating protocols which surround TCP/IP in the Internet protocol suite, in a Linux operating system environment. Assignments and lab work will be related to the operation and administration of a network using Internet protocols.

**Prerequisites:**
see go.sfu.ca

**Topics:**
- Overview of Linux O/S, socket programming
- Internet basics. (Underlying Network Technologies, IPv4, IPv6, ICMP, UDP, TCP)
- Finding address. (ARP, DHCP, NDP)
- Domain Name Service (DNS).
- Creating route for packet delivery. (RIP, OSPF, BGP)
- Multicasting including IGMP
- network security, secret-key/public-key encryption, digital signature, IPSec, SSL, firewall

**Grading:**
Assignments 30%, quizzes 30%, final 40%.

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).

**Recommended 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).