CMPT 980 - G100 Special Topics in Computing Science

**Instructor(s):** Khaled Diab

**SFU Burnaby**

**Calendar Objective/Description:**

This course aims to give students experience to emerging important areas of computing science.

**Instructor's Objectives:**

Learning the concepts of computer system and network security. Understanding the practice of network security monitoring. Gaining hands-on experience of analyzing network traces, and detecting possible threats and attacks. Defending the network infrastructure by deploying and implementing intrusion detection systems, firewalls, and virtual private networks. Reproducing various system and network attacks.

**Prerequisites:**

Instructor discretion.

**Topics:**

- Threats and attacks on operating systems
- Network security monitoring and analysis
- Network defences
- Network threats and attacks

**Grading:**

To be discussed in the first week.

**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).