CMPT 783 - G100 Cybersecurity Lab II

Instructor(s): Khaled Diab

SFU Burnaby

Calendar Objective/Description:
Cybersecurity Lab II

Instructor's Objectives:
This is the second lab course for the students enrolled into the Cybersecurity concentration of Professional Master Program. The course objectives are learning the concepts of computer system and network security, understanding the practice of network security monitoring, and gaining hands-on experience of reproducing various attacks and defenses.

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. 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:
- Threats and attacks on operating systems
- Network security monitoring and analysis
- Network defenses
- Network threats and attacks

Grading:
To be discussed in the first week of classes.

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 ).