

INSE 6150

Security Evaluation Methodologies

Course Outline – Winter 2009

Concordia Institute for Information Systems Engineering

Instructor	Benjamin Fung – Office: EV7.628 E-mail: fung (at) ciise.concordia.ca
Lectures	<i>Friday 17:45-20:15</i>
Office Hours	<i>Monday 10:25-11:25 and Friday 15:00-16:00</i>

Objectives

The course has two parts. Part I is on cyber forensics, including digital forensics processes, windows forensics, e-mail forensics, network forensics, PDA and cell phone forensics. Part II is on security evaluations methods, including formal analysis and vulnerability analysis.

Required Textbook

Computer Forensics: Principles and Practices, Linda Volonino, Reynaldo Anzaldua, and Jana Godwin, Pearson, 2006. ISBN-10: 0137020090. ISBN 13: 9780137020096 (Note, this is a special package prepared by the publisher for INSE6150. The package includes Chapter 1 of Real Digital Forensics: Computer Security and Incident Response, written by Keith J. Jones, Richard Bejtlich, and Curtis W. Rose.)

Background

Prerequisite: There is no official prerequisite, but you need to have basic software design, development, and programming skills to finish the term project.

Grading

The grading of the course is as follows:

Midterm: 22%

Final exam: 40%

Project: 35%

Participation: 3%

The term project is related to computer forensics. The project involves implementing a software program, and preparing a paper for submitting to an international journal.

Important: There is no substitution to a missing midterm, so make sure that you write the midterm at the scheduled time.

There are no pre-set cutoff points for the final grades; the cutoff points will be decided based on an assessment of difficulty level, class performance, and fairness. That is, there is no definite rule for translation of number grades to letter grades.

Website

The webpage for the course is <http://www.ciise.concordia.ca/~fung/INSE6150>. The webpage will contain announcements related to the class, pointers to documents, class notes, project description, etc. The username and password required to access this page will be provided in class.