EE 6533 – Topics in Network Security

Winter 2007

Course Outline

Class Times: Periodically Scheduled Seminars

Class Room: TBA

Instructor: Professor D. MacIsaac

Office: ITD418 (Information Technology Centre)

Office Hours: Mondays and Wednesdays 2:30-3:30

Email: dmac@unb.ca

Course Web Site: TBA

Course Description

The purpose of this course is to offer graduate students interested in computer network security an opportunity to become familiar with some important aspects of the field. This is a directed reading course so most learning will take place independently through a series of literature reviews. Content for reviews will be directed according to reports which must be submitted regularly. Suggested topics for review are delineated below but students are encouraged to submit other areas of interest:

Foundations in Computer Networks

Common Security Attacks, Services and Mechanisms

Encryption and Cryptography

Communication Protocol Vulnerabilities

Operating System and Web Application Vulnerabilities

Wireless Protocol Vulnerabilities

Security issues with respect to Database software, peer-to-peer networking, instant messaging, and network devices (routers, switches etc.)

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Reference Material

See web site regularly for updated reference list

Marking Scheme

Regular Reports:	40 %	(Individual work)
Term Paper:	35 %	(Individual work)
Seminar:	15 %	(Individual work)
Contributions to Discussion:	10 %	

▪ All cases of cheating and/or plagiarism will be reported to the university. Penalties can include failure of the activity in question or failure of the course. It is the responsibility of each student to understand and abide by the rules and regulations regarding plagiarism and other academic offenses as outlined in the UNB undergraduate calendar, pages 43-44.

▪ Serious cases of general misconduct will also be reported to the university. As outlined in the UNB undergraduate calendar, pages 28, the Board of Governors of the University has approved a set of general regulations which aim to foster a university environment which is:

"conducive to the development of the whole person…All members of the university community have the right to work and/or study in an environment which affords them respect and dignity, and is free from danger, discrimination, harassment, intimidation, and behavior which is destructive, disruptive or unlawful".

It is the responsibility of each student to understand and abide by regulations regarding general conduct as outlined in the calendar

Submitting Reports and Attending Seminars

EE 6533 is a directed reading/seminar based course. Regular submissions of reports based on readings are expected. Submissions will not be excepted all at once at the end of term and students who do not submits updates regularly may be asked to withdraw from the course. All seminars are equally important and it is expected that all students will attend all of them. Students who miss a seminar for any reason are expected to report the absence to the instructor via email. Students who miss seminars regularly or fail to report absences may be asked to withdraw from the course. Students being asked to withdraw from the course for any reason may expect only 1 warning.