

CSCI 4950 B
Introduction to Network Security
Fall 2008

Instructor: Mr. Ronald L. Martin

Office:

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Hours: By Appointment

Semester Credit Hours: 3-0-3

Prerequisite:

Objectives: To introduce the student to the process and tools for performing a Penetration Test. The student will develop knowledge of the issues confronted by System Administrators when considering the security of their systems. The focus will be on the methodology and specific tools used to assess the security posture of a networked system.

Course Description: Emphasis will be placed on understanding the tools used to perform the various stages of a Penetration test (reconnaissance, enumeration, exploitation). Other topics include Wireless penetration techniques and Web server and Web application testing.

Method of Teaching: Lecture, demonstration, and discussion will be the predominant techniques. Testing methodology will be predominantly lecture-based. Use of the various tools will evolve from assigned readings to use of the Backtrack v.3 live boot CDROM as well as downloading other open source tools.

Method of Evaluation: The course grade will normally be based upon an individual paper and presentation covering a specific tool and group presentation. The individual papers will account for $\frac{1}{4}$ of the total grade with the presentation accounting for $\frac{1}{4}$ and the group presentation worth $\frac{1}{4}$ of the grade. A comprehensive final exam will cover the final $\frac{1}{4}$ of the overall grade.

Text: Counter Hack Reloaded ISBN: 978-0131481046

Course Administration: The University attendance policy is: if a student misses the equivalent of one week's classes, the faculty member may withdraw that student from the course. I normally do not take roll every session, however if a student has excessive, unexcused absences, I will drop that student from the course after mid-term. In the majority of cases, a student's final course grade varies directly with his/her class attendance and individual programming effort.

Students are responsible for checking their Pipeline mail accounts daily for updates, assignments, and other class related information.

Pagers and cellular telephones are not permitted in class unless they are turned off.

Special permission may be granted in the cases where a student's occupation, i.e. physician, requires continual operation. Children and guests are not permitted in the classroom without permission of the instructor. Recording devices may be used only with my permission.