COSC 745
ADVANCED TOPICS IN COMPUTER SECURITY
Course Description

Mike O'Leary
Office: 316K Stephens Hall
Office Phone: 410-704-4757
Email: moleary@towson.edu
Office Hours: MWF 2:00 – 3:00

Spring 2005

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Prerequisites: COSC 734

Catalog Description: An in-depth study of advanced topics in computer security. Topics will vary according to current trends and research directions in the field. Some possible topics include: secure file and mail systems, operating system vulnerabilities, firewall and intrusion detection, denial-of-service, and security in mobile environments.

Instructional Material. This course has no required text. Recommended readings will be discussed in class.

Methods of Instruction: The class will consist primarily of hands-on laboratory exercises in computer security. These will be supplemented by lectures and readings.

Academic Integrity: The nature of this course requires that students adhere to accepted standards of academic integrity. Violations of academic integrity include cheating, plagiarism, falsification and fabrication, complicity in academic dishonesty, personal misrepresentation and proxy, bribes, favors and threats. Cheating is a serious offense that will have grave consequences for your academic life.

Students who violate these standards will either fail the course outright or, at the instructor's discretion, may merely receive a zero on any assignment for which the student receives inappropriate assistance. Violations of these standards will be referred to the administration for possible additional action.

Students are reminded that they must follow the University Guidelines for Responsible Computing (http://wwwnew.towson.edu/adminfinance/ots/resp.comp.policy.asp)

Grading and Assignments: Each hands-on project will be graded; final grades will be determined by averaging the scores on the projects, after the lowest project grade has been dropped. The final project will count triple, and will not be dropped.

Attendance: Attendance is expected; you should only miss a class for a compelling reason. If you do miss a class, you are responsible for any material that you miss. It is quite likely that is will be impossible to make up a missed hands-on project.

Withdraw: The last day to withdraw from the course with a grade of “W” is April 2.

References:
**Theoretical Books**


**Elementary Books**


**Advanced Books and Special Topics**


**Networking and System Administration**

- *Upgrading and Repairing Networks*, Scott Mueller, Que, 2004