

CSCI 283 - Computer Security I - Fall 2003
Wed. 6:10 - 8:40 pm, Rome 459
George Washington University

Handout 1 - 3 September, 2003

Purpose of course

To provide a broad overview of computer security at the advanced undergraduate/introductory graduate level.

Course content

Introductory cryptology and cryptographic protocols; program, database and network security; trusted operating systems; vulnerabilities/threats, attacks, defenses; administration of security; security policy.

Prerequisites

Discrete math, data structures, introductory programming, computer organization; all at the undergraduate level.

Texts

Pfleeger and Pfleeger, *Security in Computing*, Third Edition, Prentice Hall, 2002.

Grading

25% each for project, test, final and homework.

Grading will be absolute and not on a curve.

Policy on collaboration

All examinations, papers, and other graded work products and assignments are to be completed in conformance with The George Washington University Code of Academic Integrity.

You may discuss HWs among yourselves, and work on them in groups. However, each student is expected to write his or her own HW out independently; you may not copy one another's assignments, even in part.

You may *not* collaborate with others on the project, test, and final.

You are expected to cite all your sources in any written work that is not closed book: papers, books, web sites, discussions with others - faculty, friends, students. For example, if, in a group, one student has a major idea that leads to a solution to a HW problem, all other students in the group should cite this student.

Instructor

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Office Hours

Tuesday, Wednesday, Thursday, 3 pm to 5 pm, Phillips 706 unless cancelled in class.
Also by appointment through email.

Syllabus

This is a tentative syllabus. I might be able to organize a couple of guest lectures.

- Week I 3 September: Introduction, Cryptanalysis of simple protocols
- Weeks II-VI 10 September - 8 October: Cryptology and Cryptographic Protocols
- Week VII 15 October: Test
- Week VIII 22 October: Return Test and Test discussion
- Week IX 29 October: Program Security
- Week X 5 November: Operating Systems and Trusted OS
- Week XI 12 November: Database Security
- Week XII 19 November: Network Security
- Week XIII 26 November: Security Administration and Policy
- Week XIV 3 December: Catch-up/review