

CptS 425/580 — Network Security

Washington State University, Tri-Cities

Spring 2007

- Instructor: A. David McKinnon, Ph.D.
mckinnon@tricity.wsu.edu
- Schedule: Mon/Wed 16:15–17:30, East 212
- Office Hours: By appointment, typically either before or after class
- Website: <http://www.tricity.wsu.edu/~mckinnon/cpts425/>
- Prerequisites: CptS 360.
- Catalog Desc.: Practical topics in network security; policy and mechanism; intrusion detection, prevention, response; cryptography.
- Required Text: Introduction to Computer Security, by Matt Bishop, Addison-Wesley, 2005.
- Policies: *Academic Integrity*: Neither plagiarism nor cheating will be tolerated in this class. Established university policies will be followed for all cases of plagiarism/cheating. (The EECS policy is located at: <http://www.eecs.wsu.edu/~syllabus/eeungrad/academic-integrity.html>). Academic dishonesty will result in a failing grade for the assignment, project, or exam in question.
- Code of Conduct*: The ACM Code of Ethics and Professional Conduct and the IEEE Code of Ethics will serve as conduct guides for this class. In particular, all members of the class will be treated with respect and courtesy.
- Disability Accommodations*: Reasonable accommodations are available for students who have a documented disability. Classroom accommodation forms are available through the Disability Services Office. If you have a documented disability (even temporary) make an appointment as soon as possible with the Disability Services Coordinator Cherish Tijerina room 269 West Building. You will need to provide your instructor with the appropriate classroom accommodation form from Disability Services during the first week of class. Late notification may mean that requested accommodations might not be available. All accommodations for disabilities must be approved through the Disability Services Coordinator.

Course Overview

CptS 425/580 will cover the following topics.

- Introduction to Computer/Network Security
- Security Policies
- Basic Cryptography
- Assurance
- Malicious Logic
- Intrusion Detection
- System & Network Security

For more details on the course schedule, please see the detailed course schedule located on the class website.

Grading Policy

The overall class grade will be broken down as follows:

CptS 425

- 20 % Assignments and Homework¹
- 25 % Programming Exercises
- 6 % Network Security Classroom Discussions
(Lead three ~5 minute classroom discussions on a recent network security news item)
- 20 % Mid-term Exam²
- 25 % Final Exam²
- 4 % Discretionary points³

CptS 580

- 85 % CptS 425 Requirements
- 15 % Research Paper & Presentation

<u>Grading Scale⁴</u>	
A	> 93 %
A-	> 90 %
B+	> 87 %
B	> 83 %
B-	> 80 %
C+	> 77 %
C	> 73 %
C-	> 70 %
D+	> 67 %
D	> 63 %
D-	> 60 %
F	>= 0 %

Unless otherwise specified, all assignments, projects, exams, and other work in this class should be your own, individual effort.

Notes:

- ¹ Late work will be penalized 15% per day, unless otherwise noted.
- ² Makeup exams will not be given without prior authorization or written documentation verifying that the student was unable to take the exam as scheduled. Unexcused missed exams will earn a 'zero'. Work-related obligations and personal emergencies are included in the valid reasons for missing an exam.
- ³ Discretionary points will be awarded on the basis of class participation and professional conduct. Network Security requires both good written and oral communication skills. Discretionary points are intended to help encourage this via productive classroom discussions.
- ⁴ The grading scale is tentative. It will not be revised upwards, but may be revised downwards at the instructor's sole discretion. (If everyone has a raw score over 93%, everyone will receive an 'A'. However, if the highest raw score is 88%, the scale will likely be revised downward so that an 'A' or 'A-' will be given.)

Important Dates

- January 8 First day of class
- January 15 Martin Luther King, Jr. Day—All University Holiday
- February 19 Presidents' Day—Class Holiday
- March 12-16 Spring Vacation
- Apr 30–Mar 4 Finals Week

Assignments, Homework, and Programming Exercises

From time to time, assignments, homework, and programming exercises will be given out in class. Details about these assignments will be given in class and also posted on the class website.

E-mail will be used for official communication in this class. Please check your e-mail.