

CIS 4378, formerly CIS 386
Intro to Computer and Network Security
Course Description

Fall 2007

1 General Information

Instructor	John Fiore
Office	Wachman Hall. Room 1042
email	jfiore@temple.edu
Office Phone	(215)204-3357
website	http://www.cis.temple.edu/~jfiore
Office Hours	Tuesdays and Thursdays, 11:30-1:00 and by appointment

Laboratory Instructor	Weisi Duan
Weisi's email	wduan@temple.edu
Weisi's office	1000M
Weisi's website	TBA
Weisi's office hours	TBA
Texts	Pfleeger <i>Security in Computing, 4th Edition</i> Prentice Hall. 2006. O'Reilly online lab notes. Link will be on class website.
Lecture Time	Tuesdays and Thursdays, 1:10-2:30
Location	Tuttleman Learning Center, Room 403B
Laboratory Time	Fridays, 12:40-2:30
Laboratory Location	Wachman Hall. Room 200

2 Description

This course provides an introduction to the inherent insecurities in today's computer systems and networks, and the commonly used tools and techniques used to secure them. Topics include cryptography basics, virtual private networks, secure sockets, email security, firewalls, building secure software, kerberos, web server security, viruses, intrusion detection systems, and privacy issues.

3 Prerequisites

C or better in CIS 230
CIS 330 may be taken concurrently.

4 Grades

Quizzes	10%
Homeworks	30%
Midterm 1 October 18, in class	30%
Midterm 2 November 15, in class	30%

5 Quizzes

Quizzes will be announced. No makeup quizzes will be given.

6 Exams

There will be two midterm examinations given at a time to be announced in class. They are mandatory; students with an unexcused absence will be given an F.

7 Laboratories

Laboratory attendance will be recorded.

8 Homeworks

You will be given several short assignments, and towards the end of the semester, there will be a project. These should be submitted by email in a

timely fashion. Unless otherwise specified, homeworks may *not* be done in groups.

Homeworks submitted on or before midnight on the due date may be considered for full credit. Late homeworks will be penalized 20%. Beyond five days, late homeworks will be recorded as zeros.

Blanket extensions to the above policy may be granted at the instructor's discretion in unusual circumstances such as unclear directions, equipment problems with the computer lab as a whole, inclement weather, or cancellation of TA or instructor office hours. However, individual exceptions will only be granted in the rarest of circumstances. Appeals to accept late homework should be directed by email to the instructor, and should typically be accompanied by appropriate documentation (e.g. doctor's note). There are enough homeworks throughout the semester that disastrous performance on one or two will not prevent you from achieving a good grade in the course. However, habitually missing the assignments will guarantee a poor grade or failure.

A large part of your homework grade will consist of a project, which will be presented to the class. Failure to complete your project or to attend your presentation will have severe consequences.

9 Leaving the Course

The last day to drop the course is Monday, September 10. The last day to withdraw is Monday, October 29. These are strict deadlines. Incompletes will only be given in the rarest of circumstances. Please note that students who have previously withdrawn from this course, or who have already withdrawn from 5 courses since September 2003 may not withdraw.

10 Academic Freedom

Freedom to teach and freedom to learn are inseparable facets of academic freedom. The University has adopted a policy on Student and Faculty Academic Rights and Responsibilities (Policy 03.70.02) which can be accessed at <http://policies.temple.edu>.

11 Special Needs

Any student who has a need for accommodation based on the impact of a disability should contact me privately to discuss the specific situation as soon

as possible. Contact Disability Resources and Services at (215)204-1280 in 100 Ritter Annex to coordinate reasonable accommodations for students with documented disabilities.

12 Syllabus

Below is a rough outline of what we'll do this semester. It is subject to change. Please follow the course website for current readings.

	Topic	Reading
1 week	introduction	ch. 1
4 weeks	cryptography	ch. 2, 12.1-1.3
2 weeks	software security	ch. 3
0.5 week	midterm 1	
1 week	operating system security	ch. 4
3 weeks	network security	ch. 7
0.5 week	privacy (<i>maybe</i>)	ch. 10
0.5 week	midterm 2	
2 weeks	projects	