Class Information

What?

- It’s about network security
- Textbook:
  - Does everybody have the book?
- Course Reserves at Science Library
- Reference Book:
  - *Computer Security: Art and Science* by Matt Bishop
- Web Page: [www.cs.uoregon.edu/classes/03F/cis410netsec/](http://www.cs.uoregon.edu/classes/03F/cis410netsec/)
Prerequisites

• CIS 410/510 on Computer Security
  – Materials will be reviewed
• Or equivalent courses
  – Talk with Jun

Who?

• Instructor:
  – Jun Li: lijun@cs.uoregon.edu
  – Office: Deschutes 334
When?

• Class hours:
  – Tuesdays, Thursdays 2:00 - 3:20 p.m.
  – 202 Cascade
• Office hours:
  – Fridays 14:00 - 15:00
  – 334 Deschutes

410 Grading Policy

• Undergrads:
  – Class participation: 10%
  – In-class quiz: 10%
  – Class project: 25%
  – Midterm: 55%
  – (There is no Final)
510 Grading Policy

• Graduate students
  – Class participation: 10%
  – In-class quiz: 10%
  – Class project: 55%
  – Midterm: 25%
  – (There is no Final)

Quiz

• Quiz:
  – To check your learning quality
  – No announcement in advance
  – Often in 5 minutes
Midterm

• Will test your understanding of materials covered in class
• To get a good grade, understand the lecture notes!
  – Also use lecture notes as the guideline for reading the textbook and other materials
• Handling simple, real scenarios may be tested

Class Project

• 1-3 people per team
• Identify a security problem to solve by yourself
  – But talk to me before decided
  – Typically you should get your hands dirty
• Be ambitious:
  – A good work can be publishable
• Be down-to-earth
  – Make sure you make solid progress day by day
Project Report Contents

- A final report MUST contain:
  - Title
  - Author name
  - Introduction
    - Problem statement
    - Motivation
    - Prior work (if none or little, then say so)
    - Overview of your approach
  - Design
  - Implementation
  - Evaluation
    - Analysis
    - Measurement or simulation results
  - Conclusions
  - Acknowledgment
  - References

Project Report Format

- Email me in PDF format
  - Imagine you are publishing a paper
    - 5 pages on letter-sized paper, 1” margin on all sides, single space, 11 Times New Roman font
    - At most 5 graphs, each smaller than 3.5”x3.5”
How Would I Grade Projects?

• I’ll consider the following factors:
  – Is the idea original?
  – Are your hands dirty?
  – Are in-class presentation and progress report well done?
    • A good project web page also helps
  – A well-presented final report
  – Positive attitude: proactive, constant interaction with me, lots of discussion

Class Weekly Schedule

• Week 1 (9/30, 10/2): Class syllabus; overview of network security (I)
  – NO CLASS on THURSDAY
• Week 2 (10/7, 10/9): Overview of network security (II)
• Week 3 (10/14, 10/16): Cryptography review
• Week 4 (10/21, 10/23): Kerberos and PKI
• Week 5 (10/28, 10/30): IPsec (AH, ESP, IKE)
(cont’d)

• Week 6 (11/4, 11/6): Web security(SSL/DDoS/etc.)
• Week 7 (11/11, 11/13): Email security
• Week 8 (11/18, 11/20): midterm; routing security
• Week 9 (11/25): Firewall and VPN
• Week 10 (12/2, 12/4): Q&A (or a selected topic)

Important Schedules

• Midterm:
  – Nov 18th, Tuesday, 2-3:20 p.m.
  – Coverage: all materials covered up to Week 7
• Project
  – A 5-10 minutes presentation (10/14) (grads only)
  – A 2-page progress report (10/30)
  – A final report (12/11)
On using emails

- Subject line must be in the format of
  - CIS 410: <issue>, or
  - CIS 510: <issue>
- Otherwise may be ignored
  - Sorry I have many emails to handle every day