

Class Information

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What?

- It's about network security
- Textbook:
 - *Network Security: Private Communication in a Public World, 2nd edition*, by Charlie Kaufman, et al
 - 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/

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Prerequisites

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

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Who?

- Instructor:
 - Jun Li: lijun@cs.uoregon.edu
 - Office: Deschutes 334

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When?

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

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410 Grading Policy

- **Undergrads:**
 - Class participation: 10%
 - In-class quiz: 10%
 - Class project: 25%
 - Midterm: 55%
 - (There is no Final)

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510 Grading Policy

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

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Quiz

- Quiz:
 - To check your learning quality
 - No announcement in advance
 - Often in 5 minutes

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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

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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

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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

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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”

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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

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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)

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(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)

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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)

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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

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