CSC361 Computer Networking Mantis Cheng

Dept of Computer Science

Course Introduction

Textbook

Computer Networking: A Top Down Approach

Kurose & Rose (4th ed. or later)

Course Notes

- Textbook notes are available as PDF files on Connex under Resources > Course Notes.
- These textbook notes are copyright protected.
 You may use them for your personal study, just don't post them online.
- I will provide additional handouts (created using Marp). to supplement the textbook course notes.
 (Note: You may use markdown-preview-enhanced package in Atom, or Typora)

Course Format

- A handout is given out for each unit.
- Online lecture videos (mostly from <u>CSC144 of</u> <u>Stanford University</u> by Professors Philips Levis and Nick McKeown) will be shown in class.
- Homework exercises will be discussed in class.
- A weekly tutorial is designed to help solving homework exercises or labs.
- A weekly lab (ECS 360) is reserved to evaluate your exercises and programming labs in person.

Evaluation Scheme

Category	Times	Weight (%)
Python Labs	3 (7% each)	21
Exercises	9 (1% each)	9
Midterm	1	15
Final	1	55
Total		100

Note: You **must** pass the Final exam to pass this course.

Attendance

- Every student **must** attend **all** lectures during regular class hours MR 11:30am to 1pm.
- You must inform the instructor if you can't make it to the lecture, and why?
- If you missed 3 lectures, then you are not allowed to write the final exam. Thus, you failed!
- We will take attendance at every lecture.

Exercises

- There are in total 9 exercises, 1% each.
- 4 are Wireshark related.
- 4 are short questions related to the lectures.
- 1 is about Python UDP/TCP sockets.
- Do these exercises at your own pace. They will be made available the first day of class. Submit as soon as you complete them and before the deadline. Evaluation takes place in ECS 360.

Programming Labs

- They are about network applications using Python socket API.
 - 1. HTTP Server (TCP)
 - 2. Ping Server (UDP)
 - 3. SMTP server (E-mail)
- Evaluations are done in ECS 360.
- You must demonstrate your solutions to your TA and answer a few questions related to the labs.

Stanford Mininet VM

- We strongly recommend all students install a copy of the <u>CSC361-Mininet-VM</u> (a localized version of Mininet-VM from Stanford University).
- It is essentially a customized version Ubuntu Linux, preloaded with Firefox, Mininet, Wireshark and a collection of network utilities.
- You need to install a copy of <u>VirtualBox</u> (version 5.2 or later) in order to run the **CSC361-VM**.

Wireshark

- It is a open-sourced packet sniffer and run on all OS platforms.
- It comes preinstalled inside our **CSC361-VM**.
- But, you are recommended to install a copy on your own laptop as well.
- Some Wireshark exercises can be done on your laptop without the CSC361-VM.

Any Questions?

The End