

About me

CS118 Computer Network Fundamentals Spring 2011

Instructor: Prof. Lixia Zheng
TA: Pei-chun Cheng
Friday 4-3:30PM BH2444

- Name
 - Pei-chun Cheng
(<http://www.cs.ucla.edu/~pccheng>)
- Office Hours
 - Tue 1:30-3:30pm
 - BH2432 (TA office)
- Email
 - pccheng@cs.ucla.edu (preferred)
 - pccheng@ucla.edu
 - Please prepend "CS118" in the subject line
 - Normally reply twice a day

1

2

Course Grading

- 24% weekly homework assignments
 - No homework in 5th and 10th week
 - 8 assignments (3% each)
- 26% projects
 - (12%) Socket programming
 - (14%) Building a router
- 25% for each midterm and final exam

3

Important due dates

- Each homework is assigned every **Thursday**
 - Homework #1 is already available on Courseweb
 - Due on the following **Thursday** by 11:59PM
- Project
 - Project 1: 3rd ~ 6th week, due on Fri May 6 by 11:59PM
 - Project 2: 6th ~ 11th week, due on Tue June 7 by 11:59PM
- Exam
 - Midterm: Thu, 5th week (in class)
 - Final: Sat, 10th week
- **No late submissions accepted!**
- **No make-up exams!**

4

HW / Project details

- Homework
 - Submitted individually through Courseweb
 - Submit on-line in PDF format
- Project
 - Team with up to 3 people
 - Submit the files (xxx.tgz) through Courseweb
 - Code
 - Report in PDF format
- Academic Honesty Policy
 - <http://unitproj.library.ucla.edu/col/bruinsuccess/05/01.cfm>

5

What will be discussed

1. Course material
 - Review
 - Clarification
 - Examples
 2. Homework
 - Discussion problems
 - Solutions
 3. Project
 - Necessary backgrounds
 - ex1) review on socket programming in C or C++
 - ex2) tools to use when debugging your program
- Q & A

6

Tentative schedule

- Week1
 - Introduction to the course / section
 - Homework #1 related questions
- Week2
 - Homework #2 related questions
 - Unix socket programming
- Week3
 - Homework #3 related questions
 - Introduction to project 1
- Week4
 - Homework #4 related questions
 - Project 1 Q & A
- Week5
 - Midterm review (TBD)?

7

Tentative schedule

- Week6
 - Homework #5 related questions
 - Introduction to project 2
- Week7
 - Homework #6 related questions
 - Project 2 Q & A
- Week8
 - Homework #7 related questions
 - Project 2 Q & A
- Week9
 - Homework #8 related questions
 - Project 2 Q & A
- Week10
 - Final exam review (TBD)?

8

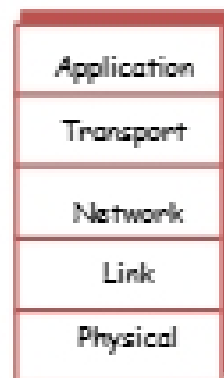
Any questions?

CS118 Computer Network Fundamentals Section 1

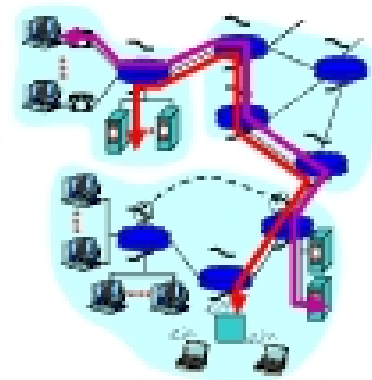
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Friday 4-5:30PM BH2444

This Week

- Internet protocol stack
 - Protocol layers
 - Functionality of each layer



- Circuit switch vs. packet-switch
 - Comparison
 - How to share links



This Week

- Data delivery performances
 - Delay
 - Packet loss
 - Throughput



- Application protocol and HTTP
 - (Non) persistent connection
 - Parallel connections
 - Pipeline

