

1

EECS10 DISCUSSION

6/26/12 Week1 Session1 Weiwei Chen

TA Greetings

2

- Weiwei Chen
Ph.D. Candidate from EECS
<http://www.cecs.uci.edu/~weiweic/home.html>
- TAed EECS10 in fall 2008, 2009, 2010
EECS22 in fall 2011
- Office hour: Tu, Th, 1:00-1:50pm PSCB 140
(email me for additional appointment if needed)
- Email: eeecs10@eeecs.uci.edu (preferable)
weiwei.chen@uci.edu
- Responsibilities:
 - ▣ Discussion Sessions (twice/week after lecture)
 - ▣ Lab Sessions (twice/week after discussion)
 - ▣ Prepare and grade homework
 - ▣ Answer questions on the course Messageboard

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Who are you?

3

- Introduce yourself (30sec/student)
 - Name?
 - Major?
 - Which year?
 - Any programming experience?
 - What do you expect from this course? / Why do you take this course?

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Course Overview

4

- Course website:
 - <https://eee.uci.edu/12y/18010/>
- Course Communication
 - eeecs10@eeecs.uci.edu (Administrative questions)
 - Course Messageboard (Homework and/or lab related questions)
- Some tips
 - Assignments
 - **The deadline is strict.** (Monday at 11pm)
 - Hand-on experience is the key to master programming.
 - Send homework early (multiple times, send something)
 - Exams
 - 2 mid-term, 1 final (Be ready for it, exam comes very very quickly)
- **“TA infos”** tab on course website
 - Discussion/Lab slides
 - Program Samples

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Discussion Session

5

- What will we do?
 - ▣ Discuss about homework
 - ▣ Address questions regarding lecture or concepts
 - ▣ Active learning and have some fun
- Weiwei's personal goal for teaching
 - ▣ help to develop critical thinking ability
 - ▣ Facilitate student-centered learning in the classroom
- What to do before the discussion?
 - ▣ Attend the lecture and take some notes
 - ▣ Take a bite for lunch and some coffee maybe
 - ▣ Read the homework assignment !!
- Attendance is **not** mandatory!

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Lab Session

6

- What will we do?
 - ▣ Address questions regarding homework
 - ▣ Programming, i.e. implement the homework (no additional lab assignments)
 - ▣ Fix program bugs
- What to do before the lab
 - ▣ Attend the discussion if you are not sure about how to do write the the homework program.
- Attendance is **not** mandatory!

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Assignment 1

7

- Part1 Linux working environment
 - ▣ Discuss in the lab session later
- Part2 Print your initials on the screen
 - ▣ Your first C program
- Part3 Add two Timestamps
 - ▣ Discuss on Thursday (read this part before the discussion)

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Our first C program

8

- Write a C program to display the following two lines:
Hello World!
My name is Weiwei.
- Activity: minute-paper
What will you need in this C program?
 - ▣ Comments?
 - ▣ Calculations?
 - ▣ Preprocessor directives?
 - ▣ Functions?
 - If yes, how many functions will you need?
 - Do you need to define your own function?
 - How to use functions that are defined by system?

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Think-pair-share: Write the program on the paper

9

- Write a C program to display the following two lines:
Hello World!
My name is *yourname*.
- Write the code on a piece of paper
- Tell your neighbor how you design your program
- Questions?

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10

EECS10 LABORATORY

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Week1 Session1

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Student Learning Outcomes

11

Students WBAT ...

- use the basic commands on Linux servers
- write the first C program on the Linux server
- compile and run the first C program (If time allowed)

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Login to Linux account

12

- Login to the machine
 - ▣ Use your UCINetID and password
- Use a terminal with SSH protocol (secure shell)
 - ▣ Windows: putty, OpenSSH, cygwin
 - ▣ Macintosh: Go->Utilities->Terminal
 - ▣ Connect to the EECS server ladera.eecs.uci.edu
 - ▣ Authorize yourself with user name and password (password will not be shown explicitly on the screen)

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Work in the Linux system environment

13

- Linux shell prints command prompt awaiting input
- Type in system commands
 - ▣ `date, ls, pwd, mkdir, cd, cp, mv, rm, cat, man`
 - ▣ Directory paths: `~, ., ..`
- Linux Working Environment: Text based
- Text editing
 - ▣ **pico** easy-to-use text editor
 - ▣ **vi** standard Linux editor
 - ▣ **vim** vi-improved (supports syntax highlighting)
 - ▣ **emacs** very powerful editor
 - ▣ many others...
- Pick one editor and make yourself comfortable with it!

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Activity: Pair command practice

14

- Find a partner and pair up
- Try to figure out which commands to use for the steps on the activity handout

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It is programing time!

15

- Create the hw1 directory in ~/EECS10
- Use an editor to write your program
- Save the program
- Compile the program
 - ▣ gcc initials.c -o initials
- Submit the program
 - ▣ Go to parent of hw1
 - ▣ /ecelib/bin/turnin10
 - ▣ Check the program

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