CSCI455: Introduction to Programming System Design

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Spring 2016
http://scf.usc.edu/~csci455/
Today’s topics

• Course overview and logistics
• Using the programming environment
  – Unix
  – Emacs
  – Java compiler
Announcements

• For announcements see course webpage: http://scf.usc.edu/~csci455/

• Please mark down exam dates

• non-DEN students: look out for email from DEN about how to get on DEN d2l.

• if you are not officially enrolled yet, please see me after class.

• New policy for new MS students
Where to find course materials

- Course web page: [http://scf.usc.edu/~csci455/](http://scf.usc.edu/~csci455/)
- Den d2l course management system only for
  - Videos and screenshots of lectures and notes
  - Grades
  - Discussion boards
    - Use this to ask us / each other questions about material, assignments – not email.
CS 455 Syllabus

• we'll go over highlights here: syllabus is required reading

• CS 455 goals
  – learn scalable development techniques
  – programming in an OO language (Java)
  – programming with linked lists/dynamic data in C++
  – using Unix environment
Prerequisites

• You should have a working knowledge of the following ideas:
  – loops
  – if statements
  – assignment statements and expressions
  – variables
  – functions (calling and writing)
  – parameters

• No prev experience? See me.
Textbook

• required textbook for Java:
  *Big Java, 5th ed., by Cay Horstmann, Wiley 2012*
  (e-book rental version: $60 – see announcements on web page)

• for C++ we'll use web-based material
Computing environment

• Unix Solaris timeshare (aludra.usc.edu)
• Unix, emacs, javac, g++
• If you install your own IDE make sure it's using version 1.7 (7.0) of Java compiler, runtime system, and API.
• Documentation section of web page has some tutorials and command summaries.
Coursework

• Lectures / Readings
• Exams (60%)
  – MT 1 (10%)  See week-by-week schedule for exam dates.
  – MT 2 (20%)
  – Final (30%)
• Programming assignments (30%)
  – 4 – 6 total (30% total)
  – important learn-by-doing for development techniques
• Labs (10%)…
Labs

• 2 hour lab session – not optional
  – (register for lab if you haven't already)
• allowed to work on it ahead of time, but work is due in your lab section.
• pair-programming
• only 80% of lab points count for grade
• DEN students:
  – complete on your own time (due Sun night)
  – no partners
  – get lab assistant help by phone / email / videoconferencing (BlueJeans)
A few more things about the course

• Grading
• Academic integrity
Hello.java

// Hello world: the traditional first program

class Hello {

    public static void main(String[] args) {

        System.out.println("Hello, World!");

    }

}