COMP 110-003
Introduction to Programming

Introductions

January 10, 2013

Haohan Li
TR 11:00 – 12:15, SN 011
Spring 2013
Today

- Course syllabus
  - Course objectives
  - General info
  - Schedule, assignments, grading
  - Miscellaneous
COMP 110

• Who shall take this class?
  – Preparing to use computers to solve problems and to develop softwares

• If you know nothing about computer
  – COMP 101 may be better

• If you’ve taken an AP course, or know programming
  – COMP 401 may be better
  – Talk to me after class
Prerequisites

• Prerequisites
  – No specific courses
  – Basic computer skills
    • Sending emails, browsing websites, installing softwares
  – Basic mathematics
    • Elementary algebra, such as solving a simple equation
  – No programming experiences required
    • It is OK that you have some experiences but remember that others don’t
Course Objectives

• You will learn the basics of JAVA programming
• More importantly, algorithmic thinking
  – An algorithm is just a sequence of instructions used to solve a problem
    • Programming is understanding. (Kristen Nygaard)
    • Programming is abstraction.
    • You will learn how to describe a problem and its solution abstractly and precisely.
  – That can be applied to any programming language (Java, C++, Python, Matlab, etc.)
Instructor

• Haohan Li
  – Currently a Ph.D. candidate in the 5th year
  – Undergrad: Shanghai Jiao Tong University
  – Research area: real-time systems
    • Computer systems that interact with physical world and provide prompt responses
    • Google my name and you will find it
General info

- Meeting Place
  - SN 011

- Meeting Time
  - Tue/Thr, 11:00am - 12:15pm

- Course Webpage
  - You should bookmark it, though it is on my webpage
General info

• Office hour:
  – Tuesday, 1:00 – 2:00, Wednesday, 10:00 – 11:00 ?
  – Tuesday, 10:00 – 11:00, Wednesday, 10:00 – 11:00 ?
  – Tuesday, 1:00 – 2:00, Wednesday, 2:00 – 3:00 ?

• Instructor office: FB 132, Fred Brooks Building

• Instructor email: lihaohan@cs.unc.edu
  – Put “COMP 110” in the subject line
Weekly Schedule

• Lectures:
  – All Tuesdays and some Thursdays
  – Review previous material
    • Questions
  – Present new material
  – In-class exercises
    • work in groups
  – Lecture notes will be posted online after class
    • The notes posted before class may not be the final version
Weekly Schedule

• Lab-times:
  – Some Thursdays
  – Extra programming practice
  – Homework help
  – Answer questions from lecture

• Each group should always have a laptop and a textbook
  – About laptops
    • I recommend that you bring one
Textbook

• Textbook is **required**
  
    
    
    • You can use the Kindle edition, or the 5th edition instead.
Software

• Java and Eclipse
  – You will find the installation instructions on the course website in this weekend
Grading

• Assignments: 60%
  – Including 3% due-date extension points
• Mid-term exam: 10%
• Final exam: 25%
• Class participation: 5%
Grading Scale

- A: 93 - 100; A- : 90 - 92.99;
- B+: 87 - 89.99; B: 83 - 86.99; B- : 80 - 82.99;
- C+: 77 - 79.99; C: 73 - 76.99; C- : 70 - 72.99;
- D+: 65 - 69.99; D: 60 - 65.99;
- F: 0 - 59.99.
Assignments

• You will have about 8-9 lab assignments, and 4-5 program assignments
  – Labs will be discussed on Thursday lab-times
    • Some labs will build on previous labs
    • Not all labs will be graded
  – Programs are very time-consuming
    • They weight the highest amount of credit!

• Reading assignments and written homework as well
  – Finish reading assignments before class
  – Written homework weights only a small amount of credit
Assignment submission

• Submit assignments through Sakai
  – Subject - COMP110 Program# your full name

• Naming code scheme
  – Name your jar files for submission as follows:
    • lastname_program#.jar
    • Example: li_program1.jar

• You will have these instructions in every assignment descriptions
Late Policy

- An assignment is on time only if it is received at or before 11:59 PM on the due date.
  - You will receive half of the credit if the assignment is received no more than 24 hours late
  - After 24 hours, you will receive no credit

- Example
  - Due date: Jan 10; Your deserved credit: 90.
    - If received on 11:59 PM, Jan 10: You get 90 points;
    - If received on 00:01 AM, Jan 11: You get 45 points;
    - If received on 00:01 AM, Jan 12: You get 0 points!
Due Date Extensions

• You have 3 opportunities to extend the due date by one more day
  – You can use them at any time and in any combination
  – You must declare the due-date extension **before** or on the due date
  – Unused opportunities are each worth 1 points on the final grade
Due Date Extensions

• Examples:
  – Due date: Jan 10; Your deserved credit: 90; You declared one due-date extension:
    • If received before 11:59 PM, Jan 10: You get 90 points;
    • If received before 11:59 PM, Jan 11: You get 90 points;
    • If received before 11:59 PM, Jan 12: You get 45 points;
    • If received after 0:00 AM, Jan 13: You get 0 points!
  – However, your final grade will be subtracted by 1 point!
Due Date Extensions

- You must declare the due-date extension before submitting the assignment
  - You can include the comment in the submission, or send me an email
    - Otherwise you late submission will be penalized
  - You can also choose to use the opportunity in the end of the semester
    - If you still have extensions left and you have late submissions
Exams

• Mid-Term
  – To take a make-up mid-term, you must be in case of emergencies. I will ask for supporting documents.

• Final (Saturday May 4, 12:00 PM)
  – To take the exam at a different time, you must get permission from your Dean and bring me the blue slip you get from the Dean.

• I do not give incomplete
Class Participation

- Attendance is mandatory for all lectures
  - Don’t make a habit of arriving late, or leaving in the midst of class;
  - No talking, sleeping, reading newspapers, eating, etc. in class;
  - Keep cellphones, pagers, etc. off;
  - Don’t use your laptop to browse the web.
Working on Assignments

• Before you open Eclipse and start coding:
  – read the assignment
  – think about what the assignment is asking for
  – review lectures and examples on the topic
  – write (on paper) your plan for completing the assignment (i.e., your algorithm)
Backup Your Work!

• Save a file when you finish editing it
  – It’s better to save it when you finish a part
  – However, if it’s working and you want to add some function, you should make a copy of the working version

• Use laptops to protect the codes from power outage

• Use USB drives, AFS or Dropbox to protect the codes from laptop outage
  – https://www.dropbox.com/
Need help?

• For help on general computer problems
• Also, for free software
  – 919-962-HELP
Collaborating

• Do not cheat!
• Do not share code!
  – You are encouraged to work together for better understanding of the course material and assignment requirements. But do the actual coding by yourself.
• Get familiar with the Honor Code
  – http://studentconduct.unc.edu/students
Struggling with Assignment

• **Start early!**
• Struggle with your assignment first before asking for help
• You are allowed to let others help you finding bugs. However, you must fix them yourself.
• It is easy to cheat but it is also easy to detect plagiarism. Keep safe by writing your own codes
Assignment for This Week

• Check Sakai for Homework 0
  – Homework 0 is due Jan. 13, Sun.
• Read Chapter 1.1 & 1.2
• Read Syllabus