Introduction
COMP 110

• Requirements / prerequisites
  – No programming knowledge assumed
  – Basic computer skills
  – Basic math background

• Goal of the course:
  – Learn how to develop algorithms
  – Learn the basic concepts and components of computer programming
    • Can be applied to any programming language (Java, C++, Python…)
COMP 110

• Why do you take COMP 110?
• What do you expect to achieve in this course?

  – Satisfy breadth requirement?
  – Plan to major in CS?

  – Easy-to-learn & easy-pass?
  – Prepare you well for future CS courses?
Instructor

• Cheng, Wei
• 程伟
• 4th year Ph.D student
• Born in China.

• Data Mining, Machine Learning, Computational Biology and many more topics
Course Web Page

• Main web page (covers most information):
  – http://www.cs.unc.edu/~weicheng/COMP110-001.htm (case sensitive)
  – Announcements, Schedule, Labs, Assignments, Resource download
  – Check your UNC email and the website at least once a day

• Sakai (university course portal)
  – Sakai.unc.edu (log in with Onyen)
  – Survey, Discussion group, Homework submission
Weekly Schedule

- MoTuWeThFr 09:45 - 11:15
- 0220, Peabody Hall
- Mix of lecture and in-class labs
- Make sure you check schedule and bring laptop.
- Do not use your laptop for chatting, Facebook ... during class.
Lecture Format

• Review of previous lecture
• Present new materials
• In-class labs
  – Work in pairs/groups
• Lecture notes will be posted online before class and updated after class
In-class labs

• Extra programming practice
• Homework help
• Answer questions from lecture
• Each group should have at least one laptop and textbook (I would encourage everyone to bring their own)
Textbook

• Required

• Java: An Introduction to Problem Solving & Programming (Sixth Edition)

• Walter Savitch

• The 5th edition is very similar to the 6th edition and is a lower cost alternative. (~$10 on amazon)
Software Preparation

• Java SDK
  – The basic thing you need to write and run java programs
  – Choose the distribution that matches your machine

• Eclipse
  – A very nice editor for writing Java program. Actually, more than that
Grading

- Assignments  60%
- Midterm       15%
- Final         20%
- Attendance & Participation   5%
Assignments

• Some labs will build on previous labs.
  – Do not miss any lab.

• Programming Assignments
  – Start Early! Do not procrastinate.

• Reading Assignments

• Self-Test Questions from textbook
  – Important for students with no prior experiences.
  – Not graded. I will provide solutions.
  – Practice for written exams
Submitting Assignment

• Submit assignments through Sakai
  – Subject - COMP110 Program# yourname

• All java programs can be packed into a single runnable file (jar file)
  – Name your jar files for submission as follows:
    – lastname_program#.jar
    – Example: liu_program1.jar
Late Policy

• Late assignments are not accepted

• 3 late days (24-hour periods)
  – Unused late days are each worth 2 extra credit points on the final
Exams

• Mid-Term
  – to take a make-up mid-term, you must notify me in advance or have a doctor's excuse

• Final
  – to take the exam at a different time, you must get permission from your Dean and bring me the blue slip from Dean
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)
Back up your work

• Backup your work!

• You will lose something at some point
  – you might have to learn the hard way

• There are several easy way to do the backup
  – Use a portable drive
  – Use university AFS space (network storage)
  – Use free cloud service (recommended)
Back up your work

- Use free cloud service (recommended)
  - Google drive
  - Microsoft Skydrive
  - Dropbox
- Install the client software on your machine
- Work in the folder only
- You have the folder content backed up securely
- You can access the content anytime from anywhere
Other Software Problems

• For help on general computer problems
• Also, for free software

http://help.unc.edu
962-HELP
Collaborating

• **Don’t cheat!**
• **Never** share code
• Do **Not** give assignment solutions until after assignment is handed in
• Struggle with the assignment before asking for help
Getting Help from me and classmates

• Sakai Forum preferred for general course question
  – Answering others questions is considered class participation
  – Discussion open to everyone

• Email me
  – chengw02@gmail.com
  – Put COMP110 in subject line
    • COMP110 - This course is too easy
    • COMP110 - I’m lost
Next Class

• Computer basics
• Introduction to problem solving and designing programs

• To-do before the class:
  – Programming experience survey in Sakai
  – Textbook sections 1.1 – 1.3
  – Try to download & install Java & Eclipse. Play with Eclipse
    • Once you install Eclipse, there are tutorials available on the Welcome page
    • Go through the “Create a Hello World Application” tutorial