

COMP 110-001

Introduction to Programming

Yi Hong

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About the Instructor

- Yi Hong
- UNC grad (4th year Ph.D. Candidate)
- Research interests: Image processing and analysis

About COMP 110

- Learn how to develop algorithms
- Learn fundamental concepts in computer programming
 - Can be applied to any programming language (Java, C++, etc.)
- Requirements
 - No programming knowledge assumed

About You

- Survey (submit via Sakai)
 - Name, E-mail, Major
 - Computer courses taken
 - Previous programming experience (if any)
 - Fun fact about yourself
 - Why are you taking COMP 110
 - What do you hope to learn in COMP 110
 - Are you free during at least one of the scheduled office hours (M 3-4, W 3-4)

Course Web Page

- Main website (covers most information)
 - <http://cs.unc.edu/~yihong/COMP110/COMP110-001.html>
 - Announcements, course documents, assignments, labs
- Sakai (university course portal)
 - <https://www.unc.edu/sakai/> (onyen login)
 - Survey, discuss group, homework submission

Weekly Schedule

- MoTuWeThFr 09:45 – 11:15 am
- FB009
- Mix of lectures and in-class labs
- Make sure you check the schedule and bring your laptop
- In class, I suggest you not to use your laptop for chatting, msg, facebook,

Lecture Format

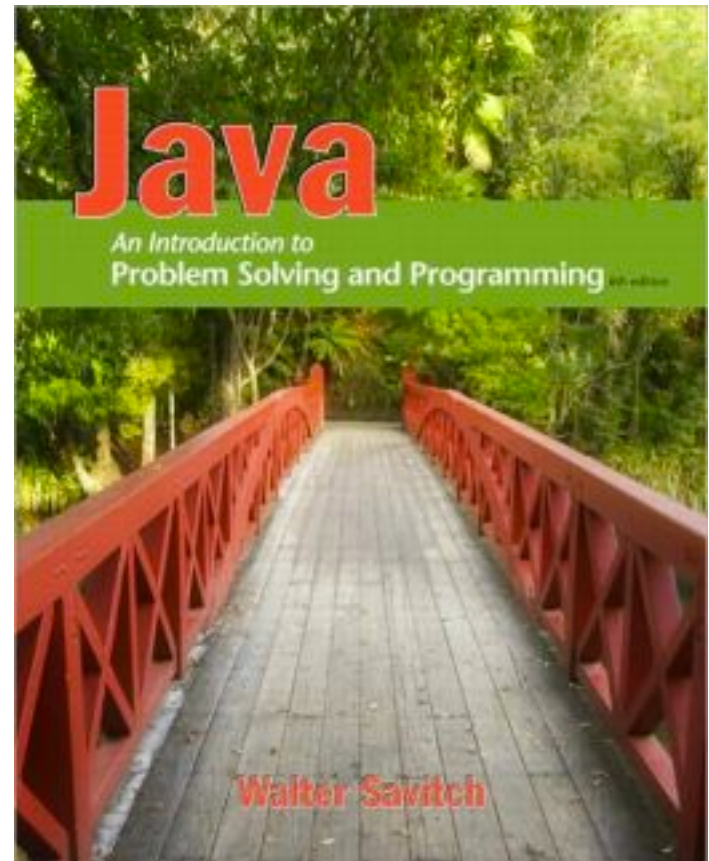
- Review previous material
- Learn new material
- Lecture slides / notes will be posted online before class and updated after class

In-class labs

- Extra programming practice
 - Work in pairs / groups
- Homework help
- Answer questions from lecture
- Each group should have at least one laptop and a textbook

Textbook

- Required
- Java: An introduction to Problem Solving & Programming (Sixth Edition)
- Walter Savitch
- The 5th edition is very similar to the 6th edition



Software

- Java SDK
 - Required to write and run java programs
 - <http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>
 - Choose the distribution that matches your machine
- Eclipse
 - IDE for writing Java programs
 - <http://www.eclipse.org/downloads/packages/eclipse-ide-java-developers/lunasr2>

Grading Policy

- Labs and Assignments 60%
- Midterm 15%
- Final 25%
- Participation 5%

Assignments

- Labs are due on the next working day
 - Some labs will build on previous labs
- Programming assignments
 - Start early!
- Reading assignments
 - Finish reading before class!
- Self-test questions from textbook
 - Practice for exams

Submitting Assignments

- Submit labs and homework through Sakai
 - In some particular cases, via email (yihong@cs.unc.edu)
 - Subject – COMP110 Lab# (or HW#)
yourname
- Pack your programs into a single runnable file (jar file)
 - Name your jar file as follows:
lastname_hw#.jar, e.g., hong_hw1.jar

Late Policy

- Assignments, submitted after **11:59pm** on the due date, will be not accepted
- 3 late days (including weekends)
 - 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 you get from the 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)

Backup Your Work

- Backup your work!
- You will lose something at some point
 - You might have to learn the hard way
- Several ways for “backup”
 - Use a portable drive
 - Use your AFS space (<http://help.unc.edu/help/your-afs-file-space-at-unc/>)
 - Use free cloud service, e.g., Google drive, Dropbox

Collaborating

- **DO NOT CHEAT!**
- **NEVER** share code
- **DO NOT** give assignment solutions until the assignment is handed in
- Struggle with the assignment before asking for help

Getting help

- Sakai forum
 - Answering questions from other students is considered as one way of class participation
- Email me
 - yihong@cs.unc.edu
 - Put COMP110 in the subject line, e.g., COMP110 – This course is too easy

Software Problems

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

<http://help.unc.edu>
962-HELP

Today's Assignments

- Homework 0 (survey) on Sakai
 - Due on Friday, May 15, 11:59 pm EDT
- Read 1.1-1.2
- Try to download and install Java SDK & Eclipse
- Try the “Create a Hello World Application” tutorial on the welcome page of Eclipse

Next Class

- Computer basics