Course Topics

- Concepts in modern programming languages
  - classes and objects, inheritance
  - recursion
  - exception handling
  - concurrency
- Data structures
  - lists, stacks, queues, trees, hashtables, collections
  - sorting, searching, algorithm analysis
- Program Design Techniques: UML, program lifecycle
- Graphical User Interfaces (GUIs)

Goal is to learn concepts, not details of Java

Course Staff

- Instructors
  - Dr. Paul Chew
  - Dr. Matthew Morgenstern
- Administrative support
  - Helene Croft
  - Laurie Buck
- Teaching Assistants
  - Evan Moran
  - Michael Clarkson
  - Kim Kanghoe
  - Vedhavi Vash
  - Yuxiang Ying
  - Andrew Lin
  - Hsiang-Hao Kung
  - David Wang
  - Brian Cody
  - Michael Priscott

Starting Next Week

- An additional lecture time
  - Also in Olin 155
  - 12:20 to 1:10 Tuesday and Thursday
  - You are encouraged to attend the 12:20 lecture
    - Less crowded
    - Same lecturer
    - Same course content
- Recitation sections also start next week

If you are unfamiliar with Java

We encourage you to take

**CS202: Transition to Java**
MWF 12:20-1:10
Upson 111
8/25 until 9/22 (1 credit)

Two Streams

- **Regular Stream**
  - Less programming: no project
  - Grade based on 2 Prelim exams (20% each), homework (35%), and a Final Exam (25%)
- **Accelerated/Project Stream**
  - More programming and a final project
  - Additional depth in recitation sections
  - No Final Exam
  - Grade based on 2 Prelim exams (20% each) and homework including a final project (30% + 30%)

Assessment exam next class to let us know what you know and to help decide which stream is appropriate.
Accelerated/Project Stream

- Additional depth and related/expanded material:
  - Relationship to concepts and approaches in other programming languages
  - Alternative ways of thinking about key concepts and implementing selected algorithms
  - Self-describing aspects of Java (‘reflection’, ‘introspection’)
  - Some opportunity for individualized mini-projects IF desired
  - Discussion of web and database applications
- Submit Drop/Add form for either:
  - section 10: Wed 12:20 - 1:10   PH 407
  - section 11: Thur 2:30 - 3:20   OH 245

Homework for Next Week - Aug 31

- Read Chapter 1 of Weiss, Data Structures and Problem Solving
- Read the material on using CodeWarrior - the Java Development Environment we are using:
  - See course web site for writeup
    http://www.cs.cornell.edu/courses/cs211
  - Review what you learned previously about Java

Submit Drop/Add form for either:
- section 10: Wed 12:20 - 1:10   PH 407
- section 11: Thur 2:30 - 3:20   OH 245