Course Organization

Jonathan Aldrich        Charlie Garrod
Course preconditions

- **15-122 or equivalent**
  - 2 semesters of programming, knowledge of C-like languages
- **Specifically:**
  - Basic programming skills
  - Basic reasoning about programs
  - Basic algorithms and data structures
Course postconditions

- **OO concepts and skills**
  - Objects, classes, types
  - Java development skills

- **Tools for developing larger-scale software**
  - Design methodologies and patterns
  - The design and use of libraries and frameworks

- **Modeling and analysis**
  - Use of development, testing, and analysis tools

- **Concurrent and distributed systems**
  - Scaling and performance
  - Safe programming practices for explicit concurrency
Important features of this course

• The team
  ▪ Instructors
    • Jonathan Aldrich aldrich@cs.cmu.edu
    • Charlie Garrod charlie@cs.cmu.edu
  ▪ TAs
    • Beth Anne Katz bkatz@andrew.cmu.edu [Section A]
    • Alex Lockwood alockwoo@andrew.cmu.edu [Section B]
    • Bailey Forrest bcforres@andrew.cmu.edu [Section C]
    • Shannon Lee sjl1@andrew.cmu.edu [Section D]
    • Mat Gray mhgray@andrew.cmu.edu [Section E]
    • Dan Lu dylu@andrew.cmu.edu [Section F]

• The schedule
  ▪ Lectures
    • Tues, Thurs 3:00 – 4:20pm DH 2315
  ▪ Recitations
    • A: Weds 9:30-10:20am GHC 4211
    • B: Weds 10:30-11:20am WEH 5310
    • C: Weds 11:30-12:20pm WEH 5310
    • D: Weds 12:30-1:20pm BH 235B
    • E: Weds 9:30-10:20pm PH A20
    • F: Weds 3:30-4:20pm PH 226C
  ▪ Office hours
    • To be announced – see course web page
Important features of this course

• **Course website**
  - Schedule, assignments, lecture slides, policy documents

• **Tools**
  - Git
    - Assignment distribution, handin, and grades
  - Piazza
    - Discussion site – link from course page
  - Eclipse
    - Recommended for developing code

• **Assignments**
  - Homework 0 available tomorrow via Git
    - Ensure all tools are working together
    - Git, Java, Eclipse

• **First recitation is tomorrow**
  - Introduction to Java and the tools in the course
  - *Bring your laptop, if you have one!*
    - Install Git, Java, Eclipse beforehand – instructions on Piazza
Course policies

• Grading (*subject to adjustment*)
  ▪ 60% assignments
  ▪ 15% midterm
  ▪ 20% final exam
  ▪ 5% participation

• Collaboration policy is on the course website
  ▪ We expect your work to be your own
  ▪ Ask if you have any questions
  ▪ If you are feeling desperate, please reach out to us
    • Always turn in any work you've completed *before* the deadline

• Texts
  ▪ Alan Shalloway and James Trott. *Design Patterns Explained: A New Perspective on Object-Oriented Design* (2nd Ed).
  ▪ Several free online texts (Java, etc.)
Course policies

• Late days for homework assignments
  ▪ 5 total late days for the semester
    ▪ A separate budget of 2 late days for assignments done in pairs
    ▪ Late days beyond the budget cost 10% per day
  ▪ May use a maximum of 2 late days per assignment
    ▪ Work submitted more than 2 days late is not accepted, except under extreme circumstances

• Recitations
  ▪ Practice of lecture material
  ▪ Discussion, presentations, etc.
  ▪ Attendance is required
  ▪ In general, bring a laptop if you can
Section availability and diversity

• There is space in the course for everyone on the waitlist
  ▪ But not necessarily if you are waiting for section C or D
  ▪ Current availability:

    E       F       B       A       D       C

    space available                                      full

  ▪ Typically more spots open up in the next 2 weeks

• Diversity of experience
  ▪ Java & OO experience varies dramatically
  ▪ If you know Java well, the first 3-4 weeks will be slow
    ▪ Stay with us—it will get interesting and challenging soon!
  ▪ If you have never seen Java, don’t worry
    ▪ You will need to work, but we have designed the course for you to
      learn quickly