

## Welcome to 4003-334 Computer Science 4

Joe Geigel

## Plan for this class

- Logistics
  - Syllabus & Ground Rules
  - Student Info Forms / Attendance
- What is this course about?

## Logistics

- First things first.
  - Official Course Web site
    - <http://www.cs.rit.edu/~cs4>
      - Syllabus
      - Schedule
      - Projects / Labs
  - My CS2 Web site
    - <http://www.cs.rit.edu/~jmg/cs4>
      - Notes from class (including copies of slides)
      - Code discussed in class

## Logistics

- Textbooks
  - *The Unified Modeling Language User Guide* by Booch, Rumbaugh, and Jacobson
  - *Thinking in C++ (2<sup>nd</sup> Edition)* by Eckel
    - Volume 1 in bookstore
    - Volume 1 and 2 available freely on line.

## Logistics

- Prerequisite:
  - 4003-233 Computer Science 3
- Assumes one is fairly comfortable with Java.

## Logistics

- About Me
  - Joe Geigel
  - Office: 10-A172
  - Office Hours: M 2-4 (or by appt)
  - <http://www.cs.rit.edu/~jmg>

## Logistics

- Grading:
  - Four basic course activities:
    - Exams 20%
    - Final Exam 20%
    - Labs 35%
    - Projects 25%

## Logistics

- Format:
  - Like CS1-3
    - 3 lectures (1 hour each)
    - 1 Lab (2 hours)
  - You'll need to sign up for both.
  - Lecture instructor is responsible for assigning final grades.

## Logistics

- Exams
  - There will be 2 mid-quarter exams:
    - Exam 1: October 3<sup>rd</sup>
    - Exam 2: October 17<sup>th</sup> (even though it says May 1 ☺)
      - Actual dates subject to change
    - No makeup exams except for extreme circumstances.
  - There will be a final (comprehensive) exam
    - Given during exam week. Date TBD.
    - No makeup exams!

## Logistics:

- Labs
  - Hands on programming projects
  - 10 labs/ 1 per week
  - Labs are due 2 days prior to next lab session
  - You may submit labs as often as you like up to the due date without penalty
  - Please do pre-lab activities before entering lab!

## Logistics:

- Lab grading:
  - Labs are scored on a 0-100% basis.
  - These scores are averages amongst all 10 labs
  - This average is divided by 0.95
    - 5% curve
  - Lab instructor is responsible for assigning lab grades (which will be given to lecture instructors for final grade calculation)
  - There are NO makeup labs

## Logistics

- Projects
  - There will be 1 assigned project
    - Larger problem to be solved outside of class and lab
    - More than half the quarter to complete.
    - Series of mini-deadlines.
      - Due dates on schedule are still tentative.
    - Coordinated by lecture instructor
    - Lots more details when projects are handed out

## Logistics

- Schedule
  - Posted on SCHEDULE section of Official Course Web site
  - Subject to change, but indicates the best guess as to what will be covered when
- Diary
  - Posted on my CS4 Web site
  - Running list of what was actually covered when
  - Includes links to these slides (in PDF)
  - Updated after each class.

## Logistics

- CS Dept Policy of Academic Dishonesty
  - Included in hardcopy syllabus
  - Please read and understand.
- Speaking of student info forms
  - Any questions before I hand them out?

## Logistics

- A note about e-mail.
  - E-mail may be sent to entire class for late-breaking announcements.
  - E-mail address registered in the LDAP database will be used.
  - PLEASE be sure that the e-mail listed is the one you actually read.

## So what is this class all about?

- Goals
  - Development of software design skills
    - Object Oriented
    - Unified Modeling Language
    - Large Design Project
  - Life Beyond Java
    - C++ is the language used
    - Not, however, merely a course in C++!!!

## So what is this class all about

- Topics
  - Design
    - UML
    - Development Life Cycle
  - C++
    - Features and architecture
    - How it differs from Java
    - Pointers / memory management
    - Generic Programming : templates
    - File Systems and File Organization

## For next time

- UML
  - Read UML Users Guide chapter 1— 8
  - Next week's lectures will concentrate on UML
  - First 2 Labs will concentrate on UML.
- Have a good weekend!
- Questions?