Overview: CS211 - Spring 2K

Instructors:
- Professor Graeme Bailey
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  Office hours: TBA
- Professor Khalid Mughal
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Course Administrator:
- Laurie Buck, Upson 303, 255-3534. Email: buck@cs.cornell.edu

Teaching Assistants:
- We will have 1-1.2 TAs for this course. Their names and email addresses will be posted on the home page for the course after TA assignments are done.

Consulting Staff:
- Consultants will be available in Upson 305 most afternoons and evenings.
- Times will be posted on the door of Upson 305 and on the course home page.

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Course Home page:
- The CS department's home page is at the following URL:
  http://www.cs.cornell.edu
- By following the links in that page, you can get to the course home page for CS 211.
- All course materials (e.g., lecture notes, program skeletons, sample code, corrections) will be available there.

Course newsgroup:
- Messages will be posted to the newsgroup cornell.class.cs211.
- You should check this newsgroup regularly.

Communications:
- All e-mail correspondence should be sent to the address:
  cs211@cs.cornell.edu
- E-mail should not be sent to individual addresses.

Lectures:
- TR 09:05-09:55AM in Olin 155
  - You should reserve these times in case we fall back to only 2 lectures a week.
- TR 10:10-11:00AM in Olin 155 (repeat)

Recitations:
- You are expected to attend one one-hour recitation section per week.
- You may attend any section you like but we prefer that you choose one section and stay with it.

Preliminary Exams: March 9th, April 18th

Final Exam: A large final project will be assigned in place of a final exam.
Prerequisites: CS100 or experience with object-oriented programming.

- The following information is intended for students who have not taken CS 100 in Java.
  - If you know C++, you should find it relatively easy to learn Java; if you know only C, you will find it harder to pick up Java on your own.
  - If you are lost after the first two weeks of our course, you should consider taking CS 100.

Course objectives:

- Concepts in modern programming languages, such as:
  - classes and objects
  - inheritance
  - aggregation
  - recursion
  - exception handling
- Building GUIs using JFC (Java Foundation Classes)
- Program Design
- Data structures and algorithms:
  - lists, stacks, queues
  - sorting and searching
  - heaps, trees and hash-tables
  - collections
  - graphs

The course is not on Java programming language.

Reading Material:

- The programming language in CS211 is Java.
- The recommended texts for the course are:
  - *Data Structures and Problem Solving Using Java* by Weiss.
- Java 2 Platform, Standard Edition, v 1.2.2, API Specification will be used extensively, and can be found here: http://java.sun.com/products/jdk/1.2/docs/api/
- A lot of other good books and material on object-oriented programming and Java can be found on the web.
- Additional material will be presented in lecture notes and posted on the course website.

Software:

- Java SDK (Software Development Kit), Standard Edition, v 1.2.2, from Sun is sufficient for doing the assignments.
- However you may choose to use an Integrated Development Environment (IDE). Such software for Java is available from many vendors such as Metrowerks (Code Warrior) and Microsoft (Visual J++). You may use any development environment that you wish.
- Some of the programming assignments may involve demos. If you have developed your code on a platform not available in the Upson basement labs, be prepared to bring in your laptop for the demo.
- For some of the assignments, we will give you shell programs to get you started. Every effort will be made to make these programs platform independent, but we cannot guarantee that they will in fact be platform independent.

Computing Labs: Upson B7 has some Macs and many PCs for your use.

- Java SDK, Standard Edition, v 1.2.2, is installed in all the General and Instructional labs.
- Code Warrior 5 is only installed in Upson Lab, and Visual J++ 6.0 is only available in the Carpenter Lab.
Assignments:
- 6-7 assignments.
- All assignments are due at the beginning of the lecture on the day specified.
- Do not ask for an extension unless you have a very good reason.
- No late assignments will be accepted.
- Assignments contribute a large fraction of your grade (see below).
- Graded work will be available in the consulting office, Upson 305.

Regrading:
- If you disagree with the way an assignment was graded, you may submit it for a regrade no later than one week after the assignment has been returned.
- Fill out a regrade form (available on the rack outside of Upson 303) and staple it to your assignment. Submit it to the consultants during normal consulting hours. They will log it and submit it to the TA in charge of that assignment.
- You must give plausible reason(s) for regrading.
- You can risk getting a lower grade if you submit for regrading.

Final Grade: Your final grade will be based on
- the assignments (45%),
- the prelims (30%) and
- the final project (25%).
- The weights of individual assignments will differ depending on the relative difficulty.
- These weights are approximate; we reserve the right to change these weights.

Academic integrity, collaboration on homework:
- All students are expected to follow the academic integrity code at all times.
- Each assignment will specify whether you may work with others and, if so, how many.
- If you do an assignment with a partner, hand in one assignment with both of your names on it (see the requirement about a cover page for each assignment).
- If partners are not allowed, you must work by yourself.
- The penalty for any violation of the Code is severe.
- If you are not sure of the rules, ask first.