CSC407F

Software Architecture & Design

Prof. Penny
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Lecturer
- Professor Penny
  - Ph.D. in the area
  - Worked in industry for 8 years
  - http://www.cs.toronto.edu/~penny
- reach me by e-mail (penny@cs.toronto.edu)
- drop by my office (LP396C)

Teaching Assistant
- Ken Cheung
  - M.Sc. student
  - extensive experience with UML and Java

Course Web page
- http://www.cs.toronto.edu/~csc407h
- no newsgroup (visit Web page for announcements)

CSC407H
- New course
  - first time being offered
  - material being moved out of 340 and 408 and augmented considerably
- Pre-requisites
  - CSC340h
    - requirements engineering
  - CSC378 → CSC270 → CSC148
    - OO concepts, Java, ADTs, data structures

- Lectures
  - TR1-2 (mandatory attendance)
- Tutorials
  - W9 (place TBA) (UML, assignments)
- Textbooks
  - Design patterns
  - Architectural patterns
  - Software architecture
  - UML

Grades
- 4 assignments (15% each)
  - First three on design patterns
    - doc + UML + working Java
  - 4th on system architecture (description & assessment)
  - Ken (the TA) will set expectations and will mark
- 1 final exam (40%)
  - open book (but it won't help!)
- Lateness policy
  - assignments due Wed. before 5:00 p.m.
  - -15% (absolute) for Thursday before 5:00
  - -30% (absolute) for Friday before 5:00
  - not accepted after Friday at 5:00 (mark of 0)
- Plagiarism
  - all assigned work is individual
  - any collaboration is plagiarism
    - rule of thumb: do not take anything in writing away from discussions
  - plagiarism will be dealt with harshly
    - Turned over to the Dean: mark of 0 in the course

Computing facilities
- CDF Unix
  - Engineering Annex
- Home PC
  - Need Java (can download from sun.java.com)
- Ken will handle all details

Topics Covered

- Introduction
  - what is architecture
  - importance of architecture
  - attaining quality attributes
- Design Patterns
  - Design solutions to recurring problems
- Architectural Patterns
  - The same, but at the architectural level
- Advanced Topics
  - ADLs, assessment, extraction, re-factoring, product lines, Software Landscape