CSC302: Engineering Large Software Systems
University of Toronto
Winter 2014

Instructor: Matt Medland
matt@cs.utoronto.ca

Lectures: GB 248, 10:10am-11:00am, Tuesdays and Thursdays.
First lecture Tuesday, January 7th. Last lecture Thursday,
April 3rd. No lecture week of Monday, February 17th (reading
week).

Website: http://www.cs.toronto.edu/~matt/csc302/

Tutorials: Room TBD, 11:10am Thursdays.

TAs: Ahmed Shah Mashiyat   – mashiyat@cs.toronto.edu
Others TBD

Office Hours: (during the term) BA4237, 11:10am Tuesdays, or by special
appointment arranged via email with the instructor.

Recommended textbooks:
There are no required texts. All course material will be provided in the
lectures and on the course webpage. The planning section of the course will
cover material from: *The Agile Planning Horizon in Professional Software
Development*, by Dr. David Penny. Excerpts from this book will be provided but
if students wish to have a copy of the text they should see the instructor.

About the course:
This course is an introduction to the theory and practice of large-scale
software system design, development, and deployment. Topics include: Advanced
UML, Patterns, Software Architecture, Refactoring, Software Evolution, Reverse
Engineering, SDLC Models, Project Management (Planning, Risks, Estimation,
Prioritization), Requirements Analysis, V&V, Testing, Quality, Managing a Team
of Developers/Engineers.

Assessment:
There will be four practical assignments and two exams:

A1: Reverse Engineering	10%	due Jan. 29th
A2: Analysis of Change Requests	10%	due Feb. 19th
Midterm test	15%	Feb. 27th - in tutorial
A3: Requirements Analysis & Plan	10%	due Mar. 12th
A4: Implementation & Review	10%	due Apr. 2nd
Final exam	35%	exam period

Class participation and peer evaluation will count for 10% of the final grade.
In addition to getting an overall passing grade,

Assessment (continued):

students must achieve a grade of at least 35% on the final exam to pass the course.

Assignments will be done in teams of 6 or 7 students. Each team will submit a single report for each assignment. All members of a team will receive the same grade for the assignment, except in exceptional circumstances and at the discretion of the instructor.

Due dates for the assignments are firm. Assignments must be submitted, either in person or electronically, before midnight on the due date. There will be a 10% per day deduction for late assignments up to a maximum of seven (7) days; assignments will not be accepted beyond that point. Saturdays, Sundays, and holidays count when calculating lateness.

Marking of the assignments will be carried out by the TAs. Requests for remarking must be made, in writing with an explanation, to the course instructor.

Important prerequisite note:

This course has prerequisites, exclusions, and a CGPA/POSt requirement. It is the student's responsibility to ensure they qualify to take the course. If the student is in doubt, or wishes to inquire about special permission to waive a prerequisite they should see the instructor immediately.

Warnings:

- Do not use another team's solution: to avoid problems, discuss with fellow students from other teams only general approaches to assignment solutions; do not take notes during such discussions. See the course website for advice on plagiarism.
- Extensions to assignments deadlines will only be granted in the case of medical or family emergencies. In the case of a medical emergency, the *Verification of Student Illness or Injury* form available from the University Health Service website is sufficient:

  http://healthservices.utoronto.ca/Forms.htm