

Overview

Welcome to csc207, an introduction to software design. One major goal of this course is to introduce you to large-scale software design and development concepts and to tools that become useful as you work on projects in teams. We will discuss effective team behaviours and communication skills, practice agile methods for designing software, and use tools such as a fully-featured IDE and a version control system. The other primary goal of this course is to help you practice how to learn a new language. We will compare salient features of Python and Java, expecting you to fill in details outside of class, and will investigate Java's memory model, scoping facilities, and object-oriented structures in depth.

General Information

Instructor	Office	Email	Office Hours	Section	Lecture Time
Diane Horton	BA 4236	dianeh@cs.toronto.edu	See the course website	L0101	WF10
				L0201	WF12
Jonathan Lung	BA 3219	lungj@cs.toronto.edu		L0301	F2-4
				L5101	W6-8

Marking Scheme

Work	Weight	Comment	Team Size
Labs (8)	4%	8 labs are mandatory (0.5% each).	Individual
Exercises (3)	7%	E1 1%, E2 3%, E3 3%	Individual
Assignment	8%		Individual
Project (with students from your lab section)	24%	Phase 0 1% Phase I 4% Phase II 8% Phase IIIa 3% Phase IIIb 8%	Two Two Four Four Four
Midterm test	12%		
Final exam	45%	You must get $\geq 40\%$ on the exam, otherwise your final course grade will be at most 47.	

Textbook (optional)

There is no required textbook in this course. All required readings will be posted on the course website. However, if you wish to own a good book on object-oriented software design, you may find the following book useful: Barbara Liskov, John Guttag, *Program Development in Java: Abstraction, Specification, and Object-oriented Design*, Addison-Wesley, 2001.

Online Resources

Course website: <http://www.cdf.toronto.edu/~csc207h/fall>

The website is required reading. It contains lecture notes, the policy on missed work, and more.

Discussion board: <http://piazza.com/utoronto.ca/fall2015/csc207>

Piazza will be used to post announcements, tips, clarifications, and other important information. You are responsible for all announcements made in lecture and on Piazza. All email sent to your UTOR account is also required reading.

Instructor contact

Instructor office hours will be listed on the course website. For electronic communication, please use email from your UTOR address for personal issues and the Piazza discussion forum to ask general course-related questions. For email, include "207" in the subject line and sign your full name.

Anonymous Feedback

The website contains a form that will allow you to send feedback anonymously to the instructor. We welcome your comments. Please don't use this form anonymously if you are expecting a personal email response—we won't know where to send the reply!

Late Policy

All work will be submitted electronically. Having technical problems, poor Internet connection, etc. will not be accepted as reasons for late submissions.

For exercises, the deadlines are firm and no late submissions will be accepted. For the assignment and the project phases, late penalties will be applied as follows. For the first five hours, the deduction will be 5% per hour. For each hour above five hours, the deduction will be a further 15% per hour. After 9 hours, submissions will not be accepted. See the Assignments and Project webpage for an hourly breakdown of the late policy.

If you have an issue that prevents you from submitting on time, please contact your instructor immediately. In case of illness or other exceptional circumstances, proper documentation (an official UofT verification of student illness or injury form) must be provided.

Labs

There are regularly-scheduled labs beginning during week 2. All of the labs will take place in BA3175, BA3185, or BA3195. Lab room assignments will be posted on the course website before the first lab, along with a list of which labs are required for credit.

Handouts and Submission

In this course, you will learn about the Subversion version control system. Each of you will have your own *Subversion repository*, shared by you, the TAs, and your instructor. Coursework handouts will be made available to you via your repository and you will submit your coursework using your repository (not online via MarkUs). Teams will have repositories as well. Course work is due by 9:00pm sharp on the specified date.

Teams

Phases 0 and I of the project will be completed in pairs. You will choose a partner *from your lab section* and you will work with that person for those two phases. Phases II and III will be done in teams of four, which will be formed by your instructor by merging two pairs.

Test and Exam

There is one midterm that will take place during the lecture timeslot (the location will be announced on the course website), and one final exam that takes place after classes are over. The final exam schedule will be posted here:

<http://www.artsci.utoronto.ca/current/undergraduate/exams>

Accessibility Needs

The University of Toronto is committed to accessibility. If you require accommodations or have any accessibility concerns, please visit <http://www.accessibility.utoronto.ca> as soon as possible.

Academic Offences

All of the work you submit must be done by you (or members of your team, if you are permitted to work in a team), and your work must not be submitted by someone else (or by another team). Plagiarism is academic fraud and is taken very seriously. The department uses software that compares programs for evidence of similar code. Please read the Rules and Regulations from the U of T Calendar (especially the Code of Behaviour on Academic Matters):

<http://www.artsandscience.utoronto.ca/ofr/calendar/rules.htm>

Here are a couple of general guidelines to help you avoid plagiarism:

- Never look at another student's coursework, whether it is on paper or on the computer screen. Never show another student your coursework. This applies to all drafts of a solution and to incomplete solutions.
- The easiest way to avoid plagiarism is to discuss the piece of work only with your teammate(s), the CSC207H TAs, the CS Help Centre TAs, and your instructor.

Term Schedule

Week	M-F Dates	Deadlines	Reminders
1	14-18 Sep		No labs
2	21-25 Sep		Labs start this week
3	28 Sep-02 Oct	E1 due Tue 29 Sep 9:00pm	
4	05-09 Oct		
5	12-16 Oct	P0 due Tue 13 Oct 9:00pm	12 Oct: Thanksgiving
6	19-23 Oct	A1 due Thu 22 Oct 9:00pm	
7	26-30 Oct	Midterm Wed 28 Oct (L0101 and L0201) / Fri 30 Oct (L0301)	
8	02-06 Nov	Project PI due Tue 03 Nov 9:00pm + demos	
9	09-13 Nov	E2 due Tue 10 Nov 9:00pm	09-10 Nov: Fall Break
10	16-20 Nov	Project PII due Tue 17 Nov 9:00pm	
11	23-27 Nov	E3 due Tue 24 Nov 9:00pm	
12	30 Nov-04 Dec	Project PIIIa due Tue 01 Dec 9:00pm + demos	
+1	07-09 Dec	Project PIIIb due Tue 08 Dec 9:00pm	09 Dec: Make-up Monday