Introduction to Software Engineering

Course Information

General Information:

Instructor: **David Jorjani**

LEC 5101:
Lectures: Mondays 18:00 – 20:00 in https://utoronto.zoom.us/j/86150854122
Passcode: 395708

Tentative plan is to hold in-person classes in BA1190 from week 3. Details TBD

Tutorials: TBD

LEC 5201:
Lectures: Thursdays 18:00 – 20:00 in https://utoronto.zoom.us/j/86150854122
Passcode: 395708

Tentative plan is to hold in-person classes in BA1190 from week 3. Details TBD

Tutorials: TBD

Office Hours: Monday/Thursdays 20:00 at https://utoronto.zoom.us/j/86150854122
Passcode: 395708

Emails:

csc301-2021-09@cs.toronto.edu to general requests related to the course

csc301-2021-09-assignment@cs.toronto.edu for emails related to assignments

csc301-2021-09-project@cs.toronto.edu for emails related to projects and tutorials

Project TAs:

- Adam El-Masri
- Shashank Motepalli
- Amir Masud Zare Bidaki
- Micheal Cooper
- Shreyansh Banthia

Assignment TAs:

- Kunal Dewan
- Vinicius Dantas de Lima Melo

Course Description:

Introduction to software development methodologies with an emphasis on agile development methods appropriate for rapidly-moving projects. Topics include basic software development infrastructure; requirements elicitation and tracking; estimation and prioritization; prototyping; basic project management; introduction to software architecture; testing; teamwork skills; design patterns and refactoring; professional responsibility.

Textbook:

There is **no required** textbook in this course. Recommended books are:

Clean Code
Clean Coder

Online resources:

Course information, lecture notes, tutorial material, important announcements, etc. will be posted on the course website on Quercus. It is your responsibility to visit it frequently. You are encouraged to use the discussion board to discuss the course material, pose questions on the assignments, etc. The discussion board will be monitored by your instructor and the TAs.

Course Website: Quercus

Discussion Board: https://piazza.com/class/kqnwgwj9tbg5pb

GitHub Classroom (link to be updated later)

Online Delivery (Contingency plan)

The course is scheduled to be in-person. However, in case circumstances change and the course delivery is moved online, the course, including your participation, will be recorded on video and will be available to students in the course for viewing remotely and after each session.

Course videos and materials belong to your instructor, the University, and/or other source depending on the specific facts of each situation, and are protected by copyright. In this course, you are permitted to download session videos and materials for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor.

For questions about recording and use of videos in which you appear please contact your instructor.

Accessibility Statement:

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach the instructors and/or the Accessibility Services as soon as possible. We will work with you and Accessibility Services to ensure you can achieve your learning goals in this course. Enquiries are confidential.

Contacting the Instructor:

Please use email for personal issues and use the discussion board to ask general course-related questions. Always use the **email addresses provided above** so you get your response in time. We receive

a large quantity of emails over the term, but we try to respond within 48 hours. However, it may take longer, especially on weekends and near due dates. Note that questions about the assignment asked the day before it's due may not be answered before the deadline, whether it is asked on the discussion board, by email, or in person.

Always send emails from your official UofT email address and begin email subject lines with "[CSC301]" lest your message accidentally be filed as spam.

Prerequisites and Exclusions:

Prerequisites: CSC209H1, CSC263H1/CSC265H1

It is **your responsibility** to ensure you have all the prerequisites for the course. If you don't have the prerequisites, please email the instructor(s) with information about your missing prerequisites and **specify why you qualify for being granted a waiver** to stay in the course. Otherwise, you will be dropped from the course.

Evaluation:

There will be two **paired** assignments, worth a total of 30%.

The **team project** (you will work in teams of 4-6 students) will be worth 70%, based on four deliverables.

The ability to work in a team effectively is a large part of the course. It is important that you are working with your team and pulling your weight on all aspects of the team project. **Your individual contribution is important, and individual marks will vary depending on your contribution, which will be assessed primarily by your peers (through evaluations) throughout the term.** Contributions in tutorials, work in deliverables, Git logs assessed through TA analysis and TA evaluations may also impact your grade based on the teaching team's discretion. **Every member of the team must contribute to the code. You may get zero for a deliverable if you do not contribute.**

There is no midterm or final exam.

Special Consideration for lateness, illness, emergencies :

We recognize that each of you may face unique challenges of varying degrees of adversity that can impact your ability to complete coursework on time to a high degree of quality and meet your academic commitments. **Every student (for assignment) and every team (for deliverables other than presentation) will be granted a grace period of up to 48 hours for one coursework item** if they are experiencing illness or other emergencies that prevent them from being able to complete any homework on time (without the need for documentation). Accessing the grace period requires only the completion of this online form (~2 mins). **If you are a student registered with Accessibility Services, your accommodations apply in addition to this grace period.**

If you require additional time or further consideration beyond what is granted above (e.g. more time on one coursework item or extensions for additional coursework items), please contact us through the course emails listed above from your UofT email address with the following information:

- Your UTORid and student number.
- The coursework you are applying for special consideration on.
- The date when you think you will be able to complete coursework again.

- An affirmation that you are experiencing a personal emergency, and understand that to falsely claim so is an offence under the Code of Behaviour on Academic Matters. You do not need to provide details of the emergency, only how you're being impacted. You MUST give an affirmation. Do NOT send a medical note instead of this.

While this does not guarantee that you will be granted special consideration, we will use our discretion to support your ability to learn and succeed within the course including:

- Cancelling a deliverable and re-weighting other coursework
- Creating 'make-up' assessments
- Modifying the requirements for existing assessments to enable completion

IMPORTANT: Notify the instructors or your TA as soon as possible if you find yourself in a difficult situation. It is always easier to resolve situations earlier rather than later. If your emergency will affect your ability to complete coursework for more than a few days, or in multiple courses, we recommend you also talk to your registrar.

Policy on collaboration:

Do not use another team's work. As a precaution, I suggest that you only discuss high-level ideas with other teams' members. You are not permitted to take any notes during these discussions, nor are you permitted to consult other teams' work. Sharing your team's work with other teams is a violation of this policy. If challenged by either a TA or the instructor, you must be able to reproduce and explain any work you submit in an oral exam. Failure to observe this policy is an academic offence, carrying a penalty ranging from a zero on an assignment or a test to suspension from the university.

Tentative Course Calendar:

Week	Week of	Topic	Deadlines (estimates)	Weight	Notes
1	Sep 6	Introduction			No class on Monday Partner Proposals announced
2	Sep 13	DevOps	Critical Reflection 1	3%	Project partner selected;
3	Sep 20	Automated Testing	Assignment 1 (Hello world+DevOps)	15%	Project partners matched and confirmed Sep 22: Last day to add courses
4	Sep 27	Product Management	Team Deliverable 1 (Oct3)	14%	
5	Oct 4	Working with Data			
6	Oct 11	APIs			Thanksgiving- No class on Monday
7	Oct 18	Agile Methodologies			
8	Oct 25	Teamwork	Team Deliverable 2	15%	
9	Nov 1	Industry Panel	Assignment 2 (API)	15%	
	Nov 8	Reading Week			No Class
10	Nov 15	Code Craftsmanship & Professionalism			
11	Nov 22	Team Presentations	Team Deliverable 3 - Presentation	15%	
12	Nov 29	Accessibility & Design Patterns	Critical Reflection 2	3%	
13	Dec 6	No Classes	Team Deliverable 4	20%	If FAS allows one term work to go into the exam period