

Introduction to Software Engineering

Course Information

General Information:

Instructor: **David Jorjani**

LEC 5101:

Lectures: Tuesdays 18:00 – 20:00

Before January 31st: <https://utoronto.zoom.us/j/81004808758> Passcode: 588622

After Jan 31st, in-person in BA1180

Tutorials:

Tuesdays 20:00, following lecture delivery method.

Office Hours: Tuesdays 17:30, following lecture delivery method.

Emails:

csc301-2022-01@cs.toronto.edu to general requests related to the course

csc301-2022-01-assignment@cs.toronto.edu for emails related to assignments

csc301-2022-01-project@cs.toronto.edu for emails related to projects and tutorials

Project TAs:

- Shashank Motepalli
- Amir Masud Zare Bidaki
- Shreyansh Banthia

Assignment TAs:

- 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/kxps5vck1hs4vo>

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 5-6 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.

Academic Integrity

You must cite your work properly. This includes project work, assignments, and reports you submit including your code. Please review the material suggested in the lectures and consult the University's site on Academic Integrity <http://academicintegrity.utoronto.ca/>. The University has a zero-tolerance policy on plagiarism as defined in section B.I.1.(d) of the University's Code of Behaviour on Academic Matters

<http://www.governingcouncil.utoronto.ca/Assets/Governing+Council+Digital+Assets/Policies/PDF/ppjun011995.pdf>. You should acquaint yourself with the Code. Please review the material in Cite it Right and if you require further clarification, consult the site How Not to Plagiarize

<http://advice.writing.utoronto.ca/wp-content/uploads/sites/2/how-not-to-plagiarize.pdf>.

Cite it Right covers relevant parts of the U of T [Code of Behaviour on Academic Matters \(1995\)](#).

The University of Toronto is committed to equity, human rights and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect where all members of our community can express themselves, engage with each other, and respect one another's differences. U of T does not condone discrimination or harassment against any persons or communities.

Policy on collaboration:

You must only submit and present your own work or your team's work or cite your external sources properly as mentioned above. 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 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 to suspension from the university.

Tentative Course Calendar:

Week	Week of	Topic	Deadlines (estimates)	Weight	Notes
1	Jan 10	Introduction + Intro to Tech Stacks			Partner Proposals announced
2	Jan 17	Git/GitHub			Project partner selected;
3	Jan 24	Product Management	Assignment 1 (Hello world)	15%	Project partners matched and confirmed
4	Jan 31	Working with Data			
5	Feb 7	Agile Methodologies	Team Deliverable 1 (Oct 7)	15%	
6	Feb 14	APIs + Automation			
	Feb 21	Reading Week			No Class
7	Feb 28	Teamwork	Team Deliverable 2	20%	
8	Mar 7	Code Craftsmanship & Professionalism	Assignment 2 (API + DevOps)	15%	
9	Mar 15	Automated Testing			
10	Mar 22	Industry Panel			
11	Mar 29	Team Presentations	Team Deliverable 3 - Presentation	15%	
12	Apr 4	Accessibility & Design Patterns			
13	Apr 11	No Classes	Team Deliverable 4	20%	