Syllabus: CSC301(2023F)-Introduction to Software Engineering

Course Information

<table>
<thead>
<tr>
<th>Instructor</th>
<th>David Jorjani</th>
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</table>
| Classes    | Mondays 18:00 – 20:00  
            Thursdays 18:00 – 20:00 |
| Class Link | https://utoronto.zoom.us/j/85990244593 Passcode: 712505 |
| Tutorials  | Mondays 20:00 – 21:00 on https://utoronto.zoom.us/j/83875450377  
            Thursdays 20:00 – 21:00 on https://utoronto.zoom.us/j/82618465762 |
| Office Hours | Thursdays 20:00-21:00 or by appointment (please send an email) |

Teaching Assistants

<table>
<thead>
<tr>
<th>Name</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pritish</td>
<td><a href="mailto:pritish.mishra@mail.utoronto.ca">pritish.mishra@mail.utoronto.ca</a></td>
</tr>
<tr>
<td>Rajesh</td>
<td><a href="mailto:rajesh1804@cs.utoronto.ca">rajesh1804@cs.utoronto.ca</a></td>
</tr>
<tr>
<td>Sinclair</td>
<td><a href="mailto:sinclair.hudson@mail.utoronto.ca">sinclair.hudson@mail.utoronto.ca</a></td>
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<tr>
<td>Yasamin</td>
<td><a href="mailto:yasamin.nourjelyani@mail.utoronto.ca">yasamin.nourjelyani@mail.utoronto.ca</a></td>
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<tr>
<td>Sarthak</td>
<td><a href="mailto:sarthak.narayan@mail.utoronto.ca">sarthak.narayan@mail.utoronto.ca</a></td>
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<tr>
<td>Sajad</td>
<td><a href="mailto:sajad.magrebi@gmail.com">sajad.magrebi@gmail.com</a></td>
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<tr>
<td>Cameron</td>
<td><a href="mailto:cameron.dufault@mail.utoronto.ca">cameron.dufault@mail.utoronto.ca</a></td>
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<tr>
<td>Aneri</td>
<td><a href="mailto:anu.gandhi@mail.utoronto.ca">anu.gandhi@mail.utoronto.ca</a></td>
</tr>
<tr>
<td>Leon</td>
<td><a href="mailto:leon.xu@mail.utoronto.ca">leon.xu@mail.utoronto.ca</a></td>
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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.

Course Emails

Each coursework has its own dedicated email address, so it's directed to the right person for grading. Please see the specific assignment/deliverable for the email. If you have a circumstance that impacts more than one coursework, you should notify both email addresses. For example, email for assignment 1 will be

- Generic requests about your project/tutorial details, etc.  csc301-2023-09-ta@cs.utoronto.edu
- Assignment 1 Email Address (similar for a2, a3)  csc301-2023-09-a1@cs.utoronto.edu
- Deliverable 1 Email address (similar for d2, d3, d4, d5)  csc301-2023-09-d1@cs.utoronto.edu
- General requests unrelated to projects, tutorials, or assignments  csc301-2023-09@cs.utoronto.edu
Contacting the Teaching Team

1. Please use email for personal issues and use the discussion board to ask general course-related questions.
2. Always use the email addresses provided above so the right people are informed and you get your response in time. Include your identifying details (e.g., GitHub id, group number, student number, legal name).
3. Always send emails from your official UoT email address and begin email subject lines with "[CSC301]" so they are prioritized.
4. 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.

Textbook and References

Given the vast areas of the course, there is no one textbook that would cover everything. Before every class, we will provide recommended readings and suggest you read them for a deeper understanding of the topics.

One of our key references throughout the term will be the Developer Roadmap Repository, which we will refer to with specific topics in relevant classes.

Course Organization

We will use several platforms throughout the course to help organize the information.

1. Quercus: Quercus will be used to communicate with you and maintain your grades. Quercus will be the starting point for everything you need to do. It is your responsibility to stay updated.
   a. Assignments: All assignments will be posted here along with their due dates, grades and rubrics.
   b. Announcements: All important announcements will be posted here so you are notified immediately.
2. GitHub
   a. Organization: GitHub Organization will be used to host all of your contributions to assignments and projects and will be used as the main source for grading purposes.
   b. Classroom: GitHub Classroom will be used as the starting point for your assignment and project submissions. Details will be provided in each section.
   c. Pages: GitHub Pages will be used to host all of the related learning material for the course. You are encouraged to contribute to this page to help improve our learning resources.
3. Piazza (Discussion Board): 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 the teaching team and the students.
4. Notion (this website): Notion will be used as a supplementary resource to provide additional information required for various components of the course.

Online Delivery

The course is scheduled to be delivered online. The classes will be recorded on video and will be available to students in the course for viewing after each session. All of the classes will have an activity component and it is strongly advised to attend and participate so you can apply the learnings.

Important Notes:

1. Although the course is scheduled to be online, you are encouraged to meet in person with your team and your partner (if possible).
2. Plan to attend and participate in classes. Watching the recordings 2x after may reduce your learning because you will not be able to think through the material and practice.
3. 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.

Prerequisites and Exclusions

Prerequisites: CSC209, CSC263/CSC265

It is your responsibility to ensure you have all the prerequisites for the course. If you don’t have the prerequisites, follow the process laid out by the undergraduate office to request a waiver. Otherwise, you will be dropped from the course.
Evaluation & Marking Scheme

You can see a summary of coursework, weights, and due dates in the table below.

<table>
<thead>
<tr>
<th>Coursework</th>
<th>Tentative Due Date</th>
<th>Weight (%)</th>
<th>Lead</th>
<th>Email Address</th>
</tr>
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<tbody>
<tr>
<td>Course Quiz</td>
<td>Sep 20</td>
<td>1</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Assignment 1 (individual)</td>
<td>Sep 20</td>
<td>2</td>
<td>TBA</td>
<td>TBA</td>
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<tr>
<td>Deliverable 1 (team)</td>
<td>Sep 29</td>
<td>16</td>
<td>Rajesh</td>
<td>TBA</td>
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<tr>
<td>Deliverable 2 (sub-team)</td>
<td>Oct 13</td>
<td>16</td>
<td>Pritish</td>
<td>TBA</td>
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<tr>
<td>Team Check in (individual)</td>
<td>Oct 27</td>
<td>1</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Deliverable 3 (team)</td>
<td>Nov 14</td>
<td>16</td>
<td>TBA</td>
<td>TBA</td>
</tr>
<tr>
<td>Deliverable 4 (Team presentation)</td>
<td>Week 10 &amp; 11</td>
<td>20</td>
<td>David</td>
<td>TBA</td>
</tr>
<tr>
<td>Deliverable 5 (team)</td>
<td>Dec 7</td>
<td>16</td>
<td>TBA</td>
<td>TBA</td>
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<tr>
<td>End of Term Reflection (individual)</td>
<td>Dec 7</td>
<td>1</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Class Participation (individual)</td>
<td>Ongoing</td>
<td>5</td>
<td>David</td>
<td>NA</td>
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<tr>
<td>Assignment 2 (individual)</td>
<td>Nov 30</td>
<td>6</td>
<td>Yasmin</td>
<td>TBA</td>
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<tr>
<td>Total</td>
<td></td>
<td>100</td>
<td></td>
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Teamwork

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 for the team project. Your individual contribution is critical; and individual marks will vary depending on your contribution. Your contribution will be assessed through the following methods:

1. Git logs & contributions. Every member of the team must contribute to code in the repo. You may get zero for one or more deliverables if you do not contribute to code. Contributions to documentation, meetings, tutorials, etc. will help but are not enough.

2. TA assessment (contributions in tutorials, meetings, and activities)

3. Peer evaluations after D5 (and likely D4).

NOTE: This is a demanding course. If you cannot commit to contributing to the course (and project), you may want to consider dropping the course now to save yourself, your team members, (and your partner) energy.

Class Participation

Your participation will be assessed through the following components:

1. Contribution to class activities: Attendance is not participation. So showing up for lectures and not engaging in the activities is not recommended.
   a. Class activities:
      i. Contribute with meaningful questions, answers, insights, feedback, etc. during classes in ways that can help improve the learning experience of your peers.
      ii. Superficial comments, small talk, and side conversations do not count.
      iii. You are not required to participate in all classes. You can see the course schedule and participate in the ones that you find most helpful and interesting to you. Contributing in at least 4 classes are required to be considered for the full mark.
      iv. Turning on your camera is preferred. It helps you pay attention and makes the class more engaging for everyone. (You will not be in the shared recording unless you talk). You can look away, take notes, eat, move around, and do what you need to take care of yourself to be fully present and engaged.

2. Answering unanswered Piazza questions.
3. Providing thoughtful feedback about the course components with suggestions on how to improve.

💡 There is no midterm or final exam.
Special Consideration for lateness, illness, and emergencies
We recognize that each of you may face unique challenges that can impact your ability to complete your coursework on time. If you are experiencing issues that prevent you from completing your coursework on time, please complete the delay notification form (~2-3 mins). Every student (for assignments) and every team (for deliverables other than presentation) will be granted a grace period of up to 48 hours. 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, please contact us through the email address related to the coursework you need an extension for (see assignment and project emails listed above) from your UofT email address with the following information:

- Your full name, GitHub id, and uTorid
- Your team number and your partner name if relevant
- The coursework you are applying for special consideration on.
- The date when you will be able to complete coursework again.
- Your lead TA will assess your request and respond. The only exception is for the presentation, which you need to coordinate directly with the instructor(s).

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.

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 and you will save yourself days of extra stress. Late requests may lead to you losing the mark for the coursework.

Remark Requests
Remark requests sent with clear details will be considered up to one week after the grades are released. Requests submitted after one week will be considered at the discretion of your TA and instructor.

Accessibility Statement
Students with diverse learning styles and needs are welcome in this course. 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.

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. The University has a zero-tolerance policy on plagiarism as defined in section B.11.(d) of the University’s Code of Behaviour on Academic Matters. 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.

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.

Policy on using Artificial Intelligence Tools
As a software engineer in industry, most teams will allow you to use the latest tools and technologies available to you (legal, security, privacy, and confidentiality considerations permitting). As part of your coursework, you are welcome to use any such tools (e.g., Copilot or ChatGPT) as long as you adhere to the following requirements:

1. You will adhere to all of the university policies in these regards.
2. You will clearly specify where you have used each tool and to what extent.

3. You will only use such tools understanding their terms of use and with non-sensitive data and software. This means you are not allowed to share sensitive data shared with you by your partner (e.g., names, emails, addresses, etc.) without their clear and written permission.

4. For any work related to your project, if you are working with a partner, you will receive written permission from your partners specifying the use case and extent.

**Tentative Course Calendar**

See Schedule & Timeline for a tentative schedule of the course