

Course Syllabus

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Please read through this course syllabus carefully to familiarize yourself with the content, logistics, and policies of this course.

All questions should be directed to csc110-2021-09@cs.toronto.edu (<mailto:csc110-2021-09@cs.toronto.edu>).

About CSC110Y1

This course is restricted to students in the first year Computer Science admission stream, and is only offered in the Fall term.

Course Description

An introduction to the field of computer science combining the tools and techniques of programming (using the Python programming language) with rigorous mathematical analysis and reasoning. Topics include: data representations; program control flow (conditionals, loops, exceptions, functions); mathematical logic and formal proof; algorithms and running time analysis; software engineering principles (formal specification and design, testing and verification). Prior programming experience is not required to succeed in this course.

Learning Outcomes

In this course, you learn to:

1. Analyze a problem domain written in English; represent key definitions and properties using mathematical logic; and design, implement, and evaluate computational solutions to solve a problem.
2. Understand and write programs using standard features of the Python programming language.
3. Understand and use a variety of professional software development skills, including: programming using an Integrated Development Environment (IDE); writing clear documentation; debugging and testing programs; reading technical documentation and source code to learn how to use an external program or library.
4. Analyse the running time of a program.
5. Define and implement common abstract data types and algorithms.
6. Create a mathematical proof or disproof of a given statement in new and familiar domains, choosing from among different proof techniques to use. Apply proofs of mathematical statements to justify the correctness of algorithms.

Lectures

The first lecture is on Thursday, September 9th at 11:00 am. All lectures start at "UofT time", which is 10 minutes past the hour. The course has two sections: an in-person section (LEC0101) and an online section (LEC9901). Both sections are attending the same synchronous lectures, just in a different format.

Lectures	LEC0101	LEC9901
Meeting Time	Mon/Wed/Thu 11:00 - 13:00	Mon/Wed/Thu
Location	in-person: MY 150 (http://map.utoronto.ca/utsg/building/087) (see below for more details)	online: (see below for more details)
Instructor	Mario Badr (course coordinator)	Tom Fai

Our lectures will alternate between instructors presenting new concepts and you actively engaging with course material through problem-solving exercises, which will be available online.

We also plan to record lectures and post them after class. However, because of the amount of active learning that will take place during lecture, please note that simply watching these videos is *not* a substitute for attending class! Our recommendation is to use these recordings for review purposes only, or if you miss a lecture (e.g., due to illness). These are meant for your personal learning, and you may *not* distribute these recordings or make your own (please see the [Copyright notice](#) below).

Attending in-person lectures

To maintain safety for in-person lectures, please take note of the following:

1. Only students **enrolled** in the LEC0101 section may attend that section.
 - Update (2021-09-03): Please see [this important announcement](#) for further restrictions on attending in-person lectures.
2. Students are required to wear non-medical masks or face coverings in all indoor common-use spaces on University property, including classrooms. Please see the [University FAQ section on masks](#) (<https://www.utoronto.ca/utogether2020/faqs#masks>) for more details.
3. To maintain physical distancing, please ask questions online (through Piazza) rather than approaching your instructor at the front of the lecture hall.
4. We will not be distributing any paper handouts. You will need an Internet-connected electronic device for accessing in-class exercises/activities. We strongly recommend bringing a laptop to class so that you can use it for programming exercises.

class so that you can use it for programming exercises.

Attending online lectures

Lectures are being live streamed. All students, regardless of section, can attend lectures online. But if you are present in the classroom (MY 150), please do not log in to Zoom at the same time. There is a limit on capacity that we would risk hitting.

We will be using Zoom for live streaming online lectures:

- <https://zoom.us/j/7173361635> [_\(https://zoom.us/j/7173361635\)](https://zoom.us/j/7173361635)
- Meeting ID: 717 336 1635
- Passcode: 11020219

Office Hours

Each week, members of the teaching team will hold office hours that provide an informal setting for students to drop in and ask questions or just chat about the course material. Office hours are held online in the **same Zoom meeting as lectures**. You are welcome to attend any of the scheduled office hours. Like lectures, you'll be able to ask questions and/or participate in the chat. We also encourage you to turn on your video/audio.

Our office hours are *student-driven*, meaning teaching team members won't have any material prepared. Instead, the discussion will be based on whatever questions you'd like to ask. Office hours are also *group-based*, meaning we generally stick to questions that aren't specific to any particular student, but rather to course concepts and answers that every student can benefit from.

If you have a personal matter to discuss, please read about how to book an individual appointment with an instructor in the [Contact section](#) below.

Tutorials

There will be an informal meet-and-greet tutorial on Friday, September 10th. The first "official" tutorial is Friday September 17th. All tutorials start at "UofT time", which is 10 minutes past the hour.

At the end of each week, you will participate in a two-hour tutorial, which is an opportunity to reinforce and extend your learning from lecture that week. We have designed the tutorials to not simply be a repeat of work you did in lecture, but to give you different kinds of opportunities to problem-solve and practice what you've learned. We have three main goals for our tutorials:

1. Help you practice and review material covered in lectures and course readings.
2. Give you opportunities to *apply* and *extend* your computer science knowledge and skills to new domains and problems.
3. Foster a sense of community and build individual relationships among every one of you.

While attendance in tutorials is not graded, all of the material covered in tutorials is mandatory, and **attendance is strongly recommended**. Tutorials are a way for you to meet and work with other students in the course, and to receive individual attention from a member of the course staff in a more intimate setting than lecture. Like all synchronous components of the course, attending tutorials regularly is a way to make sure you keep on top of your learning in this course.

Note: we often try to give extra problems that we expect to take longer than the full tutorial time. Don't feel discouraged if you don't finish every part of every tutorial, as we give additional work to give you more practice to review and learn the material.

Assessments

You will complete four major kinds of assessments in this course: Weekly preparation exercises, assignments, term tests, and a project. **All assessments are done fully online, and are the same for both the in-person and online sections.** This table details every assessment in the course:

Assessment	Due Date/Date Held (all times are Eastern Time)	Weight
Weekly Preparation Exercises	Mondays before 9 am	15%
Assignment 1	September 28th before 9 am	10%
Assignment 2	October 12th before 9 am	10%
Term Test 1	October 20th	15%
Assignment 3	November 2nd before 9 am	10%
Project Phase 1: Proposal	November 5th before 9 am	5%
Assignment 4	November 23rd before 9 am	10%
Term Test 2	December 8th**	15%
Project Phase 2: Submission	December 14th before 9 am	10%

***Before September 22nd, this was incorrectly listed as December 6th. The correct date is December 8th, which is the date as submitted to the Faculty of Arts and Science.*

The majority of assessments are submitted via the **MarkUs** platform. Other assessments, such as quizzes, are completed on **Quercus**. We describe each assessment type in more detail below.

Weekly Preparation Exercises (15%)

Weekly "preps" consist of a few readings and short exercises that you complete before each week of lecture. We have designed these preps to help you stay on track and learn simpler concepts on your own time so that we can focus on more complex content and skills in lecture. All preps are completed

own time so that we can focus on more complex content and skills in lecture. All preps are completed individually.

Each prep consists of a short reading from the [Course Notes](https://www.teach.cs.toronto.edu/~csc110y/fall/notes) (<https://www.teach.cs.toronto.edu/~csc110y/fall/notes>), a series of short-answer comprehension questions hosted in a **Quercus quiz**, and then some programming exercises hosted on **MarkUs**. Please note that:

1. You must submit all prep work individually. However, you may freely discuss all of your answers with your classmates, and with TAs and instructors on the course discussion board and office hours.
2. The prep deadline is firm, and no late submissions are accepted. You may not use grace tokens to extend this deadline.
3. For Quercus comprehension quizzes, you can make as many attempts as you wish. Your score is shown after each attempt. If you submit multiple attempts, only your best score is used.
4. For the programming exercises, you may submit the required file(s) as many times as you wish on MarkUs. However, your submission is only graded after the deadline has passed, and only your most recent submission before the deadline will be graded.

Assignments (40%)

Assignments are larger tasks that span multiple course topics, and require you to apply and synthesize your knowledge and skills from multiple areas in computer science. They are a mixture of written and programming work, and will be graded for both correctness and clarity of communication. You may complete assignments individually or with a partner, **except** the first assignment must be completed individually.

Remember that you are responsible for learning the course material underlying all parts of the assignments. You will have the most success if you truly work together, rather than trying to split up the work. One common strategy is for partners to attempt to complete *all* parts of the assignment separately, and then get together well before the deadline to discuss and compare their work, leaving enough time to synthesize each person's work into one final version.

Term Tests (30%)

Term tests are used to evaluate your learning in a focused setting periodically throughout the semester. Each term test will take place during lecture time.

Each test is open-book and "open-Python": you may access all course materials, textbooks, and online resources such as the Python documentation; you may also use PyCharm (or run Python by another means) to complete programming-related questions. However, **you are not allowed to communicate with anyone else during the test**. All work you submit must be your own. You may not send or receive solutions from any external source and you may not copy-and-paste any text or code

code or receive solutions from any external source, and you may not copy and paste any text or code from any source, even if you cite it. In particular, all code you submit must be your own; all code we will ask you to write on a test can be written from scratch using only what you've learned in this course.

Course Project

The **Course Project** is your way to take everything you've learned in CSC110 and apply it to a real-world problem domain. You'll work in groups of up to four students to investigate data and create computational tools to help analyze, visualize, interact with, model, and/or make predictions from this data. All projects will fall under the same broad theme (to be announced) and will have to satisfy a common set of technical requirements, but this is ultimately an open-ended assessment that will enable you to be creative in applying what you've learned this semester.

You will work in groups of **up to four** students to complete the project. Our recommended group size is three or four. Working individually or with one partner is allowed, but may increase your workload.

The first phase for your group is a *Project Proposal*, in which you present a preliminary proposed design for what your group will work on for the project. The second phase is submitting the project itself, which consists of both Python code and a written report.

Extra Practice

Outside of assessments, there are a number of ways you can practice course concepts outside of class. These practice modules are ungraded and include:

- Tutorials and tutorial worksheets (see above)
- Practice Quercus quizzes
- Practice MarkUs exercises
- Re-visiting and re-doing the lecture worksheets

Contact: website, email, discussion board

All course announcements will be made on Quercus, and you are responsible for reading all announcements made in this course.

Please post all of your questions about the course material and assignments on Piazza so that everyone can benefit from your questions. We will monitor the discussion board regularly, but please

answer questions from other students—helping someone else learn is one of the most effective ways of truly mastering a subject.

For asking about grades and extensions, please use the course email address.

For *personal questions* (making appointments, missing many classes, special circumstances, advice

For personal questions (making appointments, missing many classes, special circumstances, advice on catching up, etc.), please use:

<https://outlook.office365.com/owa/calendar/CSC110Y1F20219@utoronto.onmicrosoft.com/book>
[\(https://outlook.office365.com/owa/calendar/CSC110Y1F20219@utoronto.onmicrosoft.com/bookings/\)](https://outlook.office365.com/owa/calendar/CSC110Y1F20219@utoronto.onmicrosoft.com/bookings/).

CSC110 Community Code of Conduct

[This section is based in part on the [Community Covenant](https://community-covenant.net/) (<https://community-covenant.net/>)]

All members of the course staff and all students are part of the same CSC110 community, and we share the common goal of creating a safe and positive learning environment for every student. Each of us is responsible for creating this environment, and must follow the guidelines below when participating in this course.

1. *Use welcoming and inclusive language. Show empathy towards other community members.*

Call people by their preferred names and pronouns. Do not make offensive comments about an individual or group (e.g., gender, sexual orientation, disability and mental illness, or race). Avoid humour or sarcastic remarks based on such comments or stereotypes.

2. *Be respectful of differing viewpoints and experiences. Gracefully give and accept constructive criticism.*

Look for (and reflect on) ideas and perspectives that are different than your own. Make a genuine effort to thank those who share them. It is natural to disagree with something a member of our community has written, and you are permitted to voice your disagreement. However, when doing so take the following into consideration: try to understand where the other person might be coming from; do not assume the other person's motives or draw inferences from their identity; be polite in your response and state where you agree.

3. *Be professional in your conversations.*

While conversations about topics unrelated to CSC110 or even the University of Toronto are certainly permitted (and encouraged), keep these conversations professional as you would in the workplace. Do not share sexual or violent content and avoid profanity.

4. *Respect the personal boundaries of each community member.*

While we encourage you to make use of this course's online platforms to meet each other to form academic and social connections, no one is obligated to do so. Everyone will have different boundaries and comfort levels that may change over time and depending on the situation. When in doubt, ask. If someone has asked you to respect one of their boundaries (e.g., not to contact them) with or without a reason please respect their wishes. Do not reveal any person's personal

...any, with or without a reason, please respect their wishes. Do not reveal any person's personal information or private communications to a third person (or publicly) without receiving their explicit consent.

If you experience a violation of this code of conduct in a CSC110 space, or witness such a violation (even if it is not directed at you), or have any other concerns, please contact the course staff at csc110-2021-09@cs.toronto.edu (<mailto:csc110-2021-09@cs.toronto.edu>). We will respond to you in a timely manner and everything you say will be confidential.

Technology requirements

To participate in this course, you must have reliable access to a personal computer to complete course work. A desktop computer or laptop are required; other computing devices, such as Chromebooks, tablets, and smartphones, are not sufficient to run the software required for this course.

You also need to complete the [Software Installation Guide](#) for CSC110 to make sure you have all the required software for this course. *Note:* we are using PyCharm to display, write, and run Python programs in this course. While we are not grading your use of PyCharm, if you choose to use a different program for Python programming, it will be your responsibility to translate instructions we give for using PyCharm, and your instructors and TAs may be unable to assist you. It is **highly recommended** to use PyCharm for this course, even if you have previously used different software before.

If you are enrolled in an online section of this course, you should consult the [Minimum Technical Requirements](https://www.viceprovoststudents.utoronto.ca/covid-19/tech-requirements-online-learning/) (<https://www.viceprovoststudents.utoronto.ca/covid-19/tech-requirements-online-learning/>) for students to access remote learning (e.g., online lectures and tutorials).

The University of Toronto offers a *Virtual Private Network (VPN)* for you to connect your computer to the University's network, which you can use to access University resources such as Quercus and the University library. For information on using a U of T VPN, check out [U of T Secure and Remote Access](https://isea.utoronto.ca/services/vpn/) (<https://isea.utoronto.ca/services/vpn/>).

Finally, you are able to access the Department of Computer Science Teaching Labs either in-person by making an appointment, or remotely through an Internet connect. For more information, please see <https://www.teach.cs.toronto.edu/fall2021> (<https://www.teach.cs.toronto.edu/fall2021>).

Textbooks and resources

There is no required textbook for this course. We'll be making use of a set of Course Notes that we have prepared for CSC110, available for free online at <https://www.teach.cs.toronto.edu/~csc110y/fall/notes> (<https://www.teach.cs.toronto.edu/~csc110y/fall/notes>). All sections in these Course Notes other than the appendices will be required readings. New chapters will be released throughout the term

the appendices will be required readings. New chapters will be released throughout the term.

Here are a few supplementary books and resources that you may find useful for this course:

- [Practical Programming](https://pragprog.com/titles/gwpy3/) [\(https://pragprog.com/titles/gwpy3/\)](https://pragprog.com/titles/gwpy3/) by Paul Gries, Jennifer Campbell, and Jason Montojo.
- [How to Think Like a Computer Scientist](http://www.openbookproject.net/thinkcs/python/english3e/) [\(http://www.openbookproject.net/thinkcs/python/english3e/\)](http://www.openbookproject.net/thinkcs/python/english3e/) by Peter Wentworth, Jeffrey Elkner, Allen B. Downey, and Chris Meyers.
- [How to Prove It](https://librarysearch.library.utoronto.ca/discovery/search?query=any,contains,how%20to%20prove%20it%20daniel%20velleman&tab=Everything&search_scope:) [_ \(https://librarysearch.library.utoronto.ca/discovery/search?query=any,contains,how%20to%20prove%20it%20daniel%20velleman&tab=Everything&search_scope:](https://librarysearch.library.utoronto.ca/discovery/search?query=any,contains,how%20to%20prove%20it%20daniel%20velleman&tab=Everything&search_scope:) by Daniel J. Velleman.
- [Discrete Mathematics: An Open Introduction](http://discrete.openmathbooks.org/dmoi3.html) [_ \(http://discrete.openmathbooks.org/dmoi3.html\)](http://discrete.openmathbooks.org/dmoi3.html) by Oscar Levin.

Accommodations and accessibility services

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability or health consideration that may require accommodations, please feel free to approach your instructor and/or the Accessibility Services Office as soon as possible. The Accessibility Services staff are available by appointment to assess specific needs, provide referrals, and arrange appropriate accommodations. The sooner you let them and us know your needs, the quicker we can assist you in achieving your learning goals in this course. For more information on services and resources available to students, including registering for accommodations, please see the U of T Accessibility Services website: <https://www.studentlife.utoronto.ca/as> [_ \(https://www.studentlife.utoronto.ca/as\)](https://www.studentlife.utoronto.ca/as).

Special consideration and missed work

If you are unable to complete homework or if you miss a test due to major illness or other circumstances completely outside of your control, please get in touch with us immediately, and fill out the Absence Declaration Tool on [ACORN](https://acorn.utoronto.ca) [_ \(https://acorn.utoronto.ca\)](https://acorn.utoronto.ca).

IMPORTANT: Notify us as soon as possible if you find yourself in such a situation. You can contact us even before you have documentation; we won't be able to tell you at that point what accommodation you may receive, but can answer other questions and offer advice. It is always easier for everyone to resolve situations earlier rather than later.

Remark requests

Remark requests are only accepted on specific assessments. If you believe there was an error in the marking of an Assignment or Term Test, you may request that it be remarked through MarkUs. Only

remark requests submitted within the time frame indicated on MarkUs will be accepted - this is typically within **one week** of when the item was returned.

Please note that when we receive a remark request, we regrade the entire submission, not just a specific question. Your mark may go up or down as a result of the remark.

Academic integrity

The work you submit must be your own. It is an academic offence to copy the work of someone else. This includes their files, their words, and even their ideas. Whether you copy or let someone else copy, it is an offence. Academic offences are taken very seriously.

At the same time, we want you to benefit from working with other students. Obviously, work done with your partner is a joint effort. You are also welcome to work appropriately with students other than your partner. It is appropriate to discuss course material and technology related to assignments, and we encourage you to do so. For example, you may work through examples that help you understand course material or a new technology, or help each other configure your system to run a supporting piece of software. You may also discuss assignment requirements.

However, other than between group members, *collaboration on assessment solutions is strictly forbidden*. The most certain way to protect yourself is not to discuss solutions or the ideas behind them with students other than your partner. Certainly, you must not let others see your solutions, even in draft form. Do not post your solutions on public online platforms like GitHub, as these can be searched and used by other students. (See the "Your course work" section below for our advice about using private GitHub repositories.)

Please do not cheat. We want you to succeed and are here to help if you are having difficulty.

Copyright notice

Course materials prepared by the instructor are considered by the University to be an instructor's intellectual property covered by the Copyright Act, RSC 1985, c C-42. These materials are made available to you for your personal use, and cannot be shared outside of the class or published (made publicly available) in any way. Posting course materials or any recordings you may make to other websites without the express permission of the instructor will constitute copyright infringement.

This notice applies to all course materials, including (but not limited to): course notes, lecture slides, lecture recordings, lecture and tutorial handouts, sample solutions, and assessment handouts, starter code, and solutions.

Lecture and tutorial recordings

You may not make your own recordings of video, audio, or text chat, of lectures or tutorials, whether in

person or online. Course staff will upload lecture recordings on the course website for your use (but you may not distribute these).

Your course work

Work that you complete for CSC110 (including exercises, assignments, and tests) may not be shared with other students or published, with one major exception (see below). This policy is to both protect the intellectual property of course staff (including, for example, the design and starter files for assignments), and to protect you from committing acts of academic dishonesty. For more information on this topic, see [the Department of Computer Science website \(https://web.cs.toronto.edu/undergraduate/portfolio-advice\)](https://web.cs.toronto.edu/undergraduate/portfolio-advice).

[GitHub \(https://www.github.com\)](https://www.github.com) is a popular option for computer science students and professionals to both collaborate in teams and publish their work online, including to develop a portfolio for potential employers. As we said in the *Academic Integrity* section, you should not put your work publicly on GitHub. However, you may use GitHub's **private repositories** to store your own work, and work with a group on course assignments and the course project. (See [GitHub's instructions for creating a repository \(https://docs.github.com/en/github/getting-started-with-github/create-a-repo\)](https://docs.github.com/en/github/getting-started-with-github/create-a-repo) and select "Private" in Step 4.)


The exception to this policy is in the summative *Course Project*, which will be open-ended and work that we *encourage* you to share to showcase what you've learned in this course. This will be an excellent opportunity for you to add a project to your resume and an online portfolio.


Switching into CSC108













You will be able to switch from CSC110 to CSC108 up until September 29th. Students who are thinking about switching into CSC108 should speak with Mario, who is the First-Year CS Faculty Advisor. Please note that if you switch to CSC108, you will also be removed from CSC111 in the winter semester, but will be given the option of taking CSC148 and CSC165 instead. You will lose the Computer Science Admission Guarantee but will be able to apply to a computer science program after completing CSC148 and CSC165.

















Course Summary:

Date	Details	Due
Mon Sep 13, 2021	 W01 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/646849)	due by 9am

Date	Details	Due
Mon Sep 20, 2021	 W02 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/646922)	due by 9am
	 W02 Programming Exercise (https://q.utoronto.ca/courses/233887/assignments/654021)	due by 9am
Fri Sep 24, 2021	 W02 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/646922) (1 student)	due by 9am
Mon Sep 27, 2021	 W03 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/646921)	due by 9am
	 W03 Programming Exercise (https://q.utoronto.ca/courses/233887/assignments/654022)	due by 9am
Tue Sep 28, 2021	 Assignment 1 (https://q.utoronto.ca/courses/233887/assignments/646933)	due by 9am
Mon Oct 4, 2021	 W04 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/646923)	due by 9am
	 W04 Programming Exercise (https://q.utoronto.ca/courses/233887/assignments/654023)	due by 9am
Mon Oct 11, 2021	 W05 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/653987)	due by 9am
Tue Oct 12, 2021	 Assignment 2 (https://q.utoronto.ca/courses/233887/assignments/652425)	due by 9am
Thu Oct 14, 2021	 W02 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/646922) (1 student)	due by 9am
	 W03 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/646921) (1 student)	due by 9am
Mon Oct 18, 2021	 W06 Comprehension Quiz (https://q.utoronto.ca/courses/233887/assignments/653956)	due by 9am

Date	Details	Due
Tue Oct 19, 2021	 W06 Programming Exercise https://q.utoronto.ca/courses/233887/assignments/654025	due by 9am
Wed Oct 20, 2021	 Practice Test 1 https://q.utoronto.ca/courses/233887/assignments/723806	due by 11:59pm
Fri Oct 22, 2021	 Term Test 1 https://q.utoronto.ca/courses/233887/assignments/646932	due by 1pm
Fri Oct 22, 2021	 Term Test 1 (Make-up) https://q.utoronto.ca/courses/233887/assignments/729172 (2 students)	due by 11am
Fri Oct 22, 2021	 Term Test 1 (Make-up) https://q.utoronto.ca/courses/233887/assignments/729172 (1 student)	due by 2:30pm
Mon Oct 25, 2021	 W07 Comprehension Quiz https://q.utoronto.ca/courses/233887/assignments/653957	due by 9am
Mon Oct 25, 2021	 W07 Programming Exercise https://q.utoronto.ca/courses/233887/assignments/654026	due by 9am
Mon Nov 1, 2021	 W08 Comprehension Quiz https://q.utoronto.ca/courses/233887/assignments/653958	due by 9am
Tue Nov 2, 2021	 Assignment 3 https://q.utoronto.ca/courses/233887/assignments/652444	due by 9am
Fri Nov 5, 2021	 Project Proposal https://q.utoronto.ca/courses/233887/assignments/654052	due by 9am
Mon Nov 15, 2021	 W09 Programming Exercise https://q.utoronto.ca/courses/233887/assignments/654028	due by 9am
Mon Nov 22, 2021	 W10 Comprehension Quiz https://q.utoronto.ca/courses/233887/assignments/653971	due by 9am
Mon Nov 22, 2021	 W10 Programming Exercise https://q.utoronto.ca/courses/233887/assignments/654029	due by 9am

Date	Details	Due
Tue Nov 23, 2021	 <u>Assignment 4</u> (https://q.utoronto.ca/courses/233887/assignments/652445)	due by 9am
Mon Nov 29, 2021	 <u>W11 Comprehension Quiz</u> (https://q.utoronto.ca/courses/233887/assignments/653972)	due by 9am
	 <u>W11 Programming Exercise</u> (https://q.utoronto.ca/courses/233887/assignments/654030)	due by 9am
Mon Dec 6, 2021	 <u>W12 Comprehension Quiz</u> (https://q.utoronto.ca/courses/233887/assignments/653973)	due by 9am
Wed Dec 8, 2021	 <u>Term Test 2</u> (https://q.utoronto.ca/courses/233887/assignments/652448)	due by 1pm
Mon Dec 13, 2021	 <u>Project Submission</u> (https://q.utoronto.ca/courses/233887/assignments/654053)	due by 9am
Fri Feb 25, 2022	 <u>Term Test 2 (Make-up)</u> (https://q.utoronto.ca/courses/233887/assignments/761308)	due by 12:10pm
	 <u>W01 Practice Quiz</u> (https://q.utoronto.ca/courses/233887/assignments/662673)	
	 <u>W02 Practice Quiz</u> (https://q.utoronto.ca/courses/233887/assignments/725174)	
	 <u>W03 Practice Quiz</u> (https://q.utoronto.ca/courses/233887/assignments/725290)	
	 <u>W04 Practice Quiz</u> (https://q.utoronto.ca/courses/233887/assignments/725327)	
	 <u>W05 Practice Quiz</u> (https://q.utoronto.ca/courses/233887/assignments/725370)	
	 <u>W06 Practice Quiz</u> (https://q.utoronto.ca/courses/233887/assignments/753143)	

Date	Details	Due
	 W07 Practice Quiz (https://q.utoronto.ca/courses/233887/assignments/753179)	
	 W08 Practice Quiz (https://q.utoronto.ca/courses/233887/assignments/753238)	
	 W09 Practice Quiz (https://q.utoronto.ca/courses/233887/assignments/754161)	
	 W10 Practice Quiz (https://q.utoronto.ca/courses/233887/assignments/754162)	
	 W11 Practice Quiz (https://q.utoronto.ca/courses/233887/assignments/754163)	