DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES
UNIVERSITY OF TORONTO MISSISSAUGA

CSC148H5Y LEC9102
Introduction to Computer Science
Course Outline - Summer 2021

Class Location & Time	Wed, 07:00 PM - 10:00 PM
Instructor	Ilir Dema
Office Location	Virtual
Office Hours	WE 6-7pm
E-mail Address	ilir.dema@mail.utoronto.ca
Course Web Site	https://mcs.utm.utoronto.ca/~148
Co-Instructor	Michael Miljanovic
Office Hours	TH 12-1pm
E-mail Address	mike.miljanovic@mail.utoronto.ca

Course Description

Abstract data types and data structures for implementing them. Linked data structures. Encapsulation and information-hiding. Object-oriented programming. Specifications. Analyzing the efficiency of programs. Recursion. This course assumes programming experience in a language such as Python, C++, or Java, as provided by CSC108H5. Students who already have this background may consult the Computer Science faculty advisor for advice about skipping CSC108H5. [36L, 24P]

Prerequisite: CSC108H5
Exclusion: CSC148H1 or CSC150H1 or CSCA48H3 (SCI)
Distribution Requirement: SCI

Students who lack a pre/co-requisite can be removed at any time unless they have received an explicit waiver from the department. The waiver form can be downloaded from here.

Textbooks and Other Materials

No books or other course materials are required. All material is online and posted on the course website.

Assessment and Deadlines

Type	Description	Due Date	Weight
Assignment	Assignment 1	2021-06-11	15%
Assignment	Assignment 2	2021-08-13	15%
Term Test	Term Test 1	2021-06-05	10%
Term Test	Term Test 2	2021-08-07	10%
Other	Weekly Preps	On-going	15%
Final Exam	Final Exam	TBA	35%
		Total	100%

More Details for Assessment and Deadlines

In this course, you may earn a bonus mark up to 2%, in case you chose to participate in a research study as specified below.

Research Study for Bonus Credit:

As part of taking this course, you are invited to participate in a research study entitled "Enhancing First Year Programming Labs Using Game-Based Learning". This study has been reviewed the University of Toronto Research Ethics Board [Protocol# 00040860] and originally approved on April 7, 2021. Participants who complete this study will be eligible for a 2% bonus to their

final grade (up to a maximum of 100%). Information about the study is available at https://bit.ly/3sXlUW0. Instructions on how to participate will be made available later on during the course.

Prep 1 is not for credit. Prep 2 to 10 have equal weights, i.e., 1/9 of 15%.

Weekly prep deadlines are typically Mondays at 10:00PM EDT unless specified otherwise.

The assignment on which you score a higher grade is worth 18%; the other assignment is worth 12%.

The term test on which you score a higher grade is worth 12%; the other test is worth 8%.

Tests take place online as follows:

Test 1 will be made available Jun 4 at 12:01am EDT, due Jun 5 at 12:01am EDT with a 2 hour time limit.

Test 2 will be made available Aug 6 at 12:01am EDT, due Aug 7 at 12:01am EDT with a 2 hour time limit.

The term tests and the exam will take place in an online format.

You need to score at least 40% on the final exam to pass the course. Students scoring less than 40% on the final exam will receive a maximum final grade of 47%.

=== Individual Work Policy ===

All assignments and weekly preps must be done individually.

See the extended course syllabus from the CSC148 website for more information.

Penalties for Lateness

For weekly preps, **late submissions will NOT be graded**

For the two larger assignments (A1 and A2), each student will receive **ten (10) grace tokens total** ; each grace token can be used for a **two-hour extension** for an assignment. For example, you may choose to use all ten grace tokens on Assignment 1, extending its deadline by twenty hours. Or, you may wish to use five tokens for each of A1 and A2, extending each deadline by ten hours.

It is your responsibility to submit your work on time. Assignments submitted at 10:00:01 PM or after, are considered late and a grace token is deducted automatically in MarkUs, if you have any remaining. We cannot give you back a grace token that MarkUs already deducted for work submitted close to the deadline yet after it had passed, even if it's just a few seconds past the deadline!

Similarly, preps submitted at 10:00:01PM EDT or after on the due date, will not be graded.

Procedures and Rules

Missed Term Work

In general, missed term work will cause a reweighing of grades to other course assessments.

If Assignment 1 is missed, its weight will be moved to Assignment 2.

No further accommodation will be offered for Assignment 2.

If Test 1 is missed, its weight will be moved to Test 2.

If Test 2 is missed, the student will take an oral exam instead, at a time TBD with your instructors.

In case of illness, in order to have the weight of an item shifted to other items as described above, you must also declare your absence on Acorn and notify your instructor immedidately. In the event that something goes seriously wrong in your life, contact us immediately providing supporting documentation as applicable.

IMPORTANT:

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

Notes:

1. Extensions for preps are **not possible under any circumstance**. That's because preps are due Mondays at 10:00pm EDT, immediately before the Tuesday lecture section and we may discuss parts of the prep work during that week's lecture.
2. In general, special consideration for other items may be possible, due to medical or accessibility accommodations. Other considerations may be possible only in rare and extreme personal circumstances.

Missed Final Exam

Students who cannot complete their final examination due to illness or other serious causes must file an online petition **within 72 hours of the missed examination**. Late petitions will **NOT** be considered. Students must also record their absence on ACORN on the day of the missed exam or by the day after at the latest. Upon approval of a deferred exam request, a non-refundable fee of $70 is required for each examination approved.

Academic Integrity

Honesty and fairness are fundamental to the University of Toronto's mission. Plagiarism is a form of academic fraud and is treated very seriously. The work that you submit must be your own and cannot contain anyone elses work or ideas without proper attribution. You are expected to read the handout How not to plagiarize (http://www.writing.utoronto.ca/advice/using-sources/how-not-to-plagiarize) and to be familiar with the Code of behaviour on academic matters, which is linked from the UTM calendar under the link Codes and policies.

The work you submit must be your own. **It is an academic offence to copy someone else's work, with or without changes**. This includes their code, their words, and even their ideas. **Whether you copy or let someone else copy, it is an academic offence.** The department uses software that compares programs for evidence of similar code. **Academic offences are taken very seriously.**

At the same time, we want you to benefit from working with other students. You are welcome to work **appropriately** with other students. To clarify, 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 new technology, or help each other configure your system to run a supporting piece of software. You may also discuss assignment requirements.

However, **collaboration on preps or assignment solutions is strictly forbidden**. The most certain way to protect yourself is not to discuss solutions or the ideas behind them with other students. Certainly, you must not let others see your solutions, even in draft form. Please don't cheat. We want you to succeed and are here to help if you are having difficulty.

Once again, all of the work you submit must be done only by you. Plagiarism is academic fraud and is taken very seriously. Please read the Rules and Regulations from the U of T Code of Behaviour on Academic Matters

Important: Please note that while we don't prohibit the use of private tutors, you have to be aware of what is good tutoring and bad tutoring and stay away from tutors who will do you a disservice and hurt your academic standing.

1. If you have a tutor, they are not allowed to help you solve the assignments or preps! That falls under **unauthorized help** under the Code of Behaviour on Academic Matters.
2. Tutors may show you how to debug code in general, or how to read errors in general and interpret them. However, they are **not allowed to tell you how to solve a problem or what code to write** .
3. If your tutor is telling you what to write or how to solve a problem instead of providing guidance to solving the problem yourself, then they are not helping you. Students who receive such tutoring are likely to fail the course, as they are not learning and will likely fail the term tests and final exam.
4. Most tutors help other students as well, so if your tutor is telling you what to write in your solution, it is possible your assignments will be flagged for plagiarism if other students write similar code, due to the same tutor's bad practices.

Final Exam Information

Duration:	3 hours
Aids Permitted:	Open book (Textbook) - Course website access

Additional Information

=== Contact: Website, Email, Discussion Board ===

All announcements will be made on the course discussion board linked on the course website. This is required reading.

You are responsible for reading all postings made by the instructors or the TAs. We may provide clarifications or additional information, when necessary, so it is your responsibility to read the announcements carefully and to periodically skim over your classmates' posts.

Please post all of your questions about the course material and assignments there so that everyone can benefit from your questions. We will monitor the discussion board regularly, but feel free to answer other students' questions too! Helping someone else learn is one of the most effective ways of truly mastering a subject. Please note that only student answers which are accurate will be endorsed by instructors or TAs.

Please do not commit academic offences on the discussion board. Both when asking and answering questions, you are not to post your solution (even partial code), nor your approach to solving a problem. You may provide hints to guide someone in the right direction, but you are not to discuss solutions or the ideas behind them with other students, as you are depriving them of valuable steps in their learning process. Questions which you are unsure of asking you may **post privately**, a member of the course staff can convert the post to a public one later if they deem it important to do so.

For *personal questions* (remarking requests, special considerations and illness forms, missing class, etc.), please email the CSC148 instructor from **your UofT email address.** Please **include "CSC148" in the subject line** and your full name and UTORid in the body of the email. Otherwise, your message might be marked as spam!

We will try to respond to email and discussion board postings by the end of the next business day. However, it may take longer, especially near due dates. If you do not hear back quickly, we are always available during office hours to help.

IMPORTANT NOTES:
1. You must start working on assignments early, in case you have questions, as we may not get back to you on time around the deadline when the discussion board is typically very busy.
2. We will not answer assignment-related questions via email. You must post your question on the discussion board.
3. Do not post publicly parts of your solution code for exercises/assignments, preps, or labs on the discussion board! If you have a question that requires disclosing code, make a private post or come to office hours (see details on the course website).

=== Remark Requests ===

If you feel there was an error in the marking of an assignment, you may request a remark directly on MarkUs.

If you feel there was an error in the marking of a test, you may request that it be remarked via a Remark Request Form, found on the course website.

You must give a specific reason for the request, referring to a possible error or omission by the marker.

Please keep in mind that your grade **may stay the same, may increase, or may even decrease** after your remark request is assessed.

For prompt turnaround, remark requests **must be received within one week** of when you received the grade for that item.

=== Creating a positive learning environment ===

We are committed to creating a respectful learning environment in computer science courses for all students and expect that you will adhere to the University of Toronto Code of Student Conduct.
Please be mindful of how your behaviour influences the atmosphere in our learning community, not just in classes, but also in computer labs, in online forums, and anywhere that you interact with other students and members of the department.

=== Accessibility Needs ===

Students with diverse learning needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or Accessibility Services as soon as possible. Accessibility staff (located in Room 2037, Davis Building) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. Please call 905-569-4699 or email access.utm@utoronto.ca. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

Privacy and Use of Course Materials Notifications

Notice of video recording and sharing (Download permissible; re-use prohibited)
This 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.

Last Date to drop course from Academic Record and GPA is July 25, 2021.