Course Syllabus

Calendar Description

Software techniques in a Unix-style environment, using scripting languages and a machine-oriented programming language (typically C). What goes on in the operating system when programs are executed. Core topics: creating and using software tools, pipes and filters, file processing, shell programming, processes, system calls, signals, basic network programming.

Instructors

	Lectures	**Email**
Karen Reid Office: BA 4224	**BR 200 (https://map.utoronto.ca/?id=1809#!ce/48593?ct/45469,0,48654,48655,48656,48657,48658?m/494595?s/brenna)** , Wednesday 2-3, Thursday 2-3	**csc209-2024-09@cs.toronto.edu (mailto:csc209-2024-09@cs.toronto.edu)**

Office Hours

Karen: Tuesdays 3-4 BA 3201, Wednesdays 3:30-4:30 Location BA 4290

Labs

You have signed up on ACORN for a separate tutorial/lab time slot. These labs are held in person in a teach.cs lab in the Bahen building. The number of different sessions in each time slot may change based on attendance patterns. The primary purpose of the labs is to help you complete the weekly labs. Note that one lab must be completed in-person to receive credit. This will be announced well in advance.

Room	**TA**	**Last Name Range**
BA3175		A-Ha
BA3185		He-L
BA3195		M-V
BA2200		W-Z

Professionalism in CSC209

We are committed to creating a respectful learning environment in CSC courses for all students and expect that you will adhere to the University of Toronto **Code of Student Conduct (http://www.viceprovoststudents.utoronto.ca/publicationsandpolicies/codeofstudentconduct.htm)** . 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.

Course Materials

- **C Programming: A Modern Approach (http://knking.com/books/c2/index.html)** , K.N. King, W. W. Norton and Company, 2008. Note: The C book (or another similar) should be considered required. This is a particularly good book for learning C and online resources are not as good or plentiful as they are for other languages.
- The **Linux Programming Interface (http://man7.org/tlpi/index.html)** , Michael Kerrisk, No Starch Press, 2010 (**errata (http://man7.org/tlpi/errata/index.html)**). This book is recommended. Some students like to have the additional resource for the systems programming part of the course, and other get by fine without it. This book won't be used until about halfway through the course

Handouts, assignments, marks, and important course information will be posted periodically on Quercus. You should visit regularly to check. Important assignment announcements will be posted on the discussion board (Piazza). You are responsible for announcements made in class, on the web page, and on pinned instructor posts on Piazza.

Discussion Board - Piazza

The discussion board is the best place to ask technical questions, and general questions about the course, assignments and labs.

Email

Please use the course email address **csc209-2024-09@cs.toronto.edu (mailto:csc209-2024-09@cs.toronto.edu) (mailto:csc209-2022-01@cs.toronto.edu)** for personal questions and the discussion board for all other course-related questions. We will try to respond to email by the end of the next business day. However, due to volume, it may take longer.

Please send email from your UofT email address and include your full name and UTORid.

Course Prerequisites

To take CSC209, you must have previously completed CSC207 (or CSCB07 at UTSC) or have the permission of the instructor. Students who do not have the prerequisite will receive email from the undergrad office regarding their options.

Marking Scheme and Schedule

Work	Weight	Deadline
Lecture Preparation (PCRS)	5% (best 9 of 11)	Wednesdays before 2:00 pm (weeks 2 - 12)
Lab Exercises	7% (best 8 of 10)	Fridays before 10pm (weeks 1 - 11)
A1	7%	Thu 26 Sept, before 10pm
Term Test 1	10%	Wed 2 Oct, 2-3pm (Room: MS 3153)
A2	10%	Thu 24 Oct, before 10pm
Term Test 2	10%	Thu 7 Nov, 2-3pm (Room: EX 100)
A3	10%	Thu 28 Nov, before 10 pm
Research Surveys	1% (0.5% x 2 surveys)	**Survey 1** (https://utorontopsych.az1.qualtrics.com/jfe/form/SV_5d2UFuVH93SoE3c%20) : Thurs 4 Sept 1:59pm, Survey 2: TBA
Final exam	40%	Minimum grade of 40% required to pass this course

Lecture Prep and Exercises

Research consistently shows us that students remember only a small fraction of what we present in lecture. It is not easy to make sense of material that you see for the first time in the first half-hour of a fast-paced lecture environment, let alone to stay focused for two hours. It's also important to space out your studying (spaced repetition). To prime you for what we will discuss, you will view a set of videos and complete exercises by 2 pm Wednesdays. These are the "Preparation" exercises hosted on PCRS: **https://pcrs.teach.cs.toronto.edu/csc209-2024-09/** (https://pcrs.teach.cs.toronto.edu/csc209-2024-09/content/quests) . You may attempt the PCRS exercises any number of times, and may redo them after the deadlines.

Tests

The term tests will be held during your regular lecture time slot but not in the regular lecture room. Detailed information about the test will be published in advance of the test on the Tests page.

If you miss one term test and received special consideration for it, the marks will be shifted to the other term test and final exam. If you miss two term tests, you will need to write a make-up test held during the final exam period.

To pass the course, you must receive at least 40% on the final exam.

Assignments

Assignments will be programming assignments in C and will be done individually. Assignments will be submitted using MarkUs and Git. You are expected to have working command-line knowledge of Git from CSC207 or prior experience. Assignment code must execute correctly on the teach.cs machines.

Minimum Standards for Submitted Work: For your assignment to be graded, it must meet the minimum standards of a professional computer scientist. **All** files required to build the program must be committed to the repository, and the program must compile without warnings or errors. **Your submission will receive a grade of 0 if it doesn't compile. Your submission will receive a 10% deduction in the total marks if it compiles with warnings.**

- **Late Work:** The late policy is strict. Please see the Special Consideration section below for information on how to ask for an extension for assignments. Labs and Lecture preparations are not eligible for extensions.
    - Assignments are due before 10 pm on the due date. There is a one-hour grace period after the deadline during which assignments will be accepted with out penalty or asking for an extension. However one second after 11pm is late. We recognize that unexpected problems sometimes make it difficult to submit assignments on time.

If you are at risk of missing a deadline due to a busy week, you should hand in a working (and tested) version of a simpler program. This will be easy to do if you have written and debugged a series of programs that accomplish more and more of the assigned problem.

In the event of an illness or other catastrophe, contact your instructor (by email or in person) as soon as possible. Do not wait until the due date has passed. It is always easier to make alternate arrangements before the due date or test day.

Since your assignments are submitted electronically and will often be tested using an automated

testing program, you must follow the submission instructions exactly. If you do not, you will most likely lose substantial marks on the assignment. Check your submission carefully.

Remark Requests:

All remark requests must be submitted on MarkUs within *two weeks* of the marks being returned. No late requests will be accepted. There are two different types of remark requests:

- **Remarking requests due to mis-marking.**
  - If a piece of work has been marked incorrectly, you may request a remark. For a remark to succeed, you must clearly and concisely express what you believe was mis-marked. There is no penalty for this type of remark request.
    1. To request a remark for an assignment, submit the remark request on MarkUs. Instructions regarding any mis-marking of the midterm test will be provided when the marked tests are returned.
    2. Provide a clear and concise description of the marking errors that you have found. Please be aware that your entire assignment/test may be remarked.
- **Remarking requests due to incorrect submissions.** This type of remark request is only for Assignments; Remarks of this type are not permitted for labs (instead, labs have a best 9 of 11 marking policy).
  - **If you lost a considerable number of marks for what you have determined is a small error**:
    1. You can submit a remark request on MarkUs that includes a **very clear** explanation of the error and describes how one or two lines of code should be changed in order to fix the error.
    2. You should re-submit your assignment with the changes described above made to fix the error (again, this should only involve a line or two of code).
    3. There will be **a 20% penalty** for this fix, so you should only ask for it if you think you will gain more than 20% of the total marks.

Special Consideration

One reason that we allow students to count the best 9 of 11 (for prepare exercises and labs) is so that they can miss a submission due to illness or other unexpected circumstances. This policy is also intended to cover students who enrol late to the course.

We recognize that unexpected problems, illness, and disability-related barriers sometimes make it difficult to submit assignments on time. For this reason, we are adopting a policy of automatic extensions with respect to assignment submissions. You may request an extension of up to one week for an assignment submission by completing this **form (https://forms.office.com/Pages/**

ResponsePage.aspx?id=JsKqeAMvTUuQN7RtVsVSEH66rj2flYRAr4YaXlSQ_8JUN1hWM0Y5NzVZQlA1QkY5QjE4MjZUOTFJUi4u) .

When an extension is granted under this policy, MarkUs will be updated to reflect the extended deadline. This update may take up to a day to take effect. The maximum extension that can be allowed is one week. Any assignments submitted beyond the one week extension and the one-hour grace period (even 1 second beyond) will not be graded.

This policy is intended to cover students who are registered with Accessibility services and require extra time to complete assignments as well as students who discover that they are unable to meet the original assignment deadline. Do not use it lightly to simply shift the original deadline. For example, if a student has been granted an extension of 1 week and then becomes ill on the extended deadline, no further extension will be given unless the student has been ill for more than 7 days or the student's college registrar is involved due to extremely extenuating circumstances.

You may make use of this policy on as many assignments as you require. However, if you submit extension requests for more than one assignment, we may reach out to connect you with campus supports to help you stay on track in the future (e.g. your college registrar).

IMPORTANT: *Submit your request soon as possible if you find yourself in such a situation. It is 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.

If a **religious holiday** will keep you from completing any assigned work and this does *not* fit with the special consideration provision, please let your instructor know as soon as possible (but no later than two weeks before the due date), and we will work out a mutually agreeable accommodation.

Lecture Recordings

We are participating in the University of Toronto's *Opencast Content Capture Pilot*, which will automatically record lectures and post them on the **OCCS Student App. (https://q.utoronto.ca/courses/353468/collaborations)** 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 due to extenuating circumstances. If you did miss the lecture, we strongly recommend working through the in-class exercises (which are posted separately on Quercus) when we reach those points in the lecture, so that your experience is as close to the live classroom experience as possible. These recordings are meant for your personal learning, and you may *not* distribute these recordings or make your own (please see the **Copyright notice**

(https://q.utoronto.ca/courses/353468/pages/syllabus#Copyright-notice) below).

Academic Integrity

All of the work you submit must be done by you and your work must not be submitted by someone else. Plagiarism is academic fraud and is taken very seriously. The department uses software that compares programs for evidence of similar code. Please read the **Rules and Regulations** (http://www.governingcouncil.utoronto.ca/policies/behaveac.htm) from the U of T Calendar (especially the Code of Behaviour on Academic Matters). Here are a couple of guidelines to help you avoid plagiarism:

- If you find snippets of code or examples on the web that you want to use in your work, you must cite your sources. In other words, include in a source code comment, a link to where you found the code you are using.
- If you use CoPilot or other AI tools to generate code for your work, you must cite the code that it generated. This is not necessary for code completion type use which would be similar to grammar corrections in written work, but code chunks of more than 2 lines must be cited. Remember that you are responsible for your own learning and assignments and labs are intended to help you develop your skills.
- Maintain absolute control of your work – including notes and partial solutions – at all times. We encourage you to discuss course concepts and to study for exams with other students, but any work that is submitted should be your own. The easiest way to avoid plagiarism is to only discuss submitted work with your instructors and TAs. Similarly, Google (and Wikipedia) may help you with course material, but do not use the internet to look for solutions to the assignment problems.

Additional Policies & Statements

Religious Accommodations

As a student at the University of Toronto, you are part of a diverse community that welcomes and includes students and faculty from a wide range of cultural and religious traditions. For my part, I will make every reasonable effort to avoid scheduling tests, examinations, or other compulsory activities on religious holy days not captured by statutory holidays. Further to University Policy, if you anticipate being absent from class or missing a major course activity (such as a test or in-class assignment) due to a religious observance, please let me know as early in the course as possible, and with sufficient notice (at least two to three weeks), so that we can work together to make alternate arrangements.

Students with Disabilities or Accommodation Requirements

Students with diverse learning styles and needs are welcome in this course. If you have an acute or ongoing disability issue or accommodation need, you should register with Accessibility Services (AS) at the beginning of the academic year by visiting **https://studentlife.utoronto.ca/department/accessibility-services/ (https://studentlife.utoronto.ca/department/accessibility-services/)** . Without registration, you will not be able to verify your situation with your instructors, and instructors will not be advised about your accommodation needs. AS will assess your situation, develop an accommodation plan with you, and support you in requesting accommodation for your course work. Remember that the process of accommodation is private: AS will not share details of your needs or condition with any instructor, and your instructors will not reveal that you are registered with AS.

Academic Integrity

All suspected cases of academic dishonesty will be investigated following procedures outlined in the **Code of Behaviour on Academic Matters (https://governingcouncil.utoronto.ca/secretariat/policies/code-behaviour-academic-matters-july-1-2019) (https://governingcouncil.utoronto.ca/secretariat/policies/code-behaviour-academic-matters-july-1-2019)** . If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, please reach out to me. Note that you are expected to seek out additional information on academic integrity from me or from other institutional resources. Consult the Code of Behaviour on Academic Matters for a complete outline of the University's policy and expectations. For more information, please see **A&S Student Academic Integrity (https://www.artsci.utoronto.ca/current/academic-advising-and-support/student-academic-integrity) (https://www.artsci.utoronto.ca/current/academic-advising-and-support/student-academic-integrity)** and the **University of Toronto Website on Academic Integrity (https://www.academicintegrity.utoronto.ca) (https://www.academicintegrity.utoronto.ca/)** .

Video Recording and Sharing (Download and 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 sources depending on the specific facts of each situation and are protected by copyright. Do not download, copy, or share any course or student materials or videos without the explicit permission of the instructor.

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

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 lab handouts, sample solutions, and assessment handouts, starter code, and solutions.