

CSC309H1 S

Programming on the Web

Winter 2024 Syllabus

Course Meetings

CSC309H1 S

Section	Day & Time	Delivery Mode & Location
LEC0101	Monday, 9:00 AM - 11:00 AM	In Person: BA 1160
	Wednesday, 10:00 AM - 11:00 AM	In Person: BA 1160
LEC0201	Monday, 1:00 PM - 3:00 PM	In Person: BA 1180
	Wednesday, 2:00 PM - 3:00 PM	In Person: BA 1180
LEC2001	Monday, 9:00 AM - 11:00 AM	In Person: BA 1160
	Wednesday, 10:00 AM - 11:00 AM	In Person: BA 1160
LEC2101	Monday, 1:00 PM - 3:00 PM	In Person: BA 1180
	Wednesday, 2:00 PM - 3:00 PM	In Person: BA 1180

Refer to ACORN for the most up-to-date information about the location of the course meetings.

Course Contacts

Instructor: Khai Truong

Email: khai@cs.utoronto.ca

Phone: 416-978-4761

Office Hours and Location: BA7268; By appointment only.

Additional Notes: Send an email to csc309-2024-01@cs.toronto.edu. Please note the additional policies: Always use your UofT email address (i.e., @cs.toronto.edu or @utoronto.ca). Emails sent from addresses other than your UofT official email address will not be answered. Always include your full name, and UTOrid in your communication by email. Always prepend "[CSC309]" to your subject title, when emailing your questions to the instructor or TAs. Allow up to 72 business hours for a reply. We will try to respond to email by the end of the next day. However, due to volume, it may take longer. Emails sent Friday or over the weekend will be responded to on Monday at the earliest.

Course Overview

An introduction to software development on the web. Concepts underlying the development of programs that operate on the web; survey of technological alternatives; greater depth on some technologies. Operational concepts of the internet and the web, static client content, dynamic client content, dynamically served content, n-tiered architectures, web development processes, and security on the web. Assignments involve increasingly more complex web-based programs.

Guest lecturers from leading e-commerce firms will describe the architecture and operation of their web sites.

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Course Learning Outcomes

At the end of the course, you will:

- Understand the concept of web, servers, and clients
- Gain deep knowledge of various components in a modern website (back-end and front-end)
- Learn how to create a static website with HTML, CSS, and JavaScript
- Learn how develop the back-end of a website with Django
- Learn how to develop the front-end of a website with React

Prerequisites: CSC209H1/ CSC209H5/ CSCB09H3/ [ESC180H1](#)/ [ESC190H1](#)/ CSC190H1/ ([APS105H1](#), [ECE244H1](#))

Corequisites: None

Exclusions: CSC309H5, CSCC09H3. NOTE: Students not enrolled in the Computer Science Major or Specialist program at A&S, UTM, or UTSC, or the Data Science Specialist at A&S, are limited to a maximum of 1.5 credits in 300-/400-level CSC/ECE courses.

Recommended Preparation: CSC343H1

Credit Value: 0.5

Course Materials

Textbooks

There are no textbooks for this course. You can Google related keywords to find reference manuals on each major topic. Midterm and final exam material will solely be sourced from the lecture notes.

Marking Scheme

Assessment	Percent	Details	Due Date
Midterm	10%	50-minute open book test, completed on Feb. 28 during regular lecture time slot you enrolled in Will cover content taught prior to reading week To be completed at home or in lecture room on your own laptop/tablet with Internet connectivity.	2024-02-28
A1: Static Web Page	10%	Individual assignment in which students are asked to develop a website consisting of static web pages.	2024-01-31
A2: Server side scripting	10%	Individual assignment in which students are asked to develop a server scripts for responding to user input from webpages.	2024-02-26
A3: Client side scripting	10%	Individual assignment in which students are asked to develop a client scripts responding to server messages.	2024-03-27
P1: Static design	10%	P1 is a group project assignment completed in teams of 4. In P1, students will develop static webpages for an application which will help users schedule regular 1-1 meetings/lessons with others	2024-02-07
P2: Back end implementation	10%	P2 is a group project assignment completed in teams of 4. In P2, students will develop the back end of a web application which will help users schedule regular 1-1 meetings/lessons with others.	2024-03-06

Assessment	Percent	Details	Due Date
P3: Front end implementation	20%	P3 is a group project assignment completed in teams of 4. In P3, students will develop the front end of a web application which will help users schedule regular 1-1 meetings/lessons with others. The basic requirements of the assignment constitutes 15% out of the 20%, extra features designed by the students will make up the remaining 5% of the 20%.	2024-04-03
Online Final Exam	20%		Final Exam Period

Late Assessment Submissions Policy

All assignments and project milestones must be submitted electronically and are due at 5:00PM sharp on the date of the deadline for all students, regardless of when they enroll in the course. Late submissions will not be accepted.

Policies & Statements

Late/Missed Assignments

All assignments and project milestones must be submitted electronically and are due at **5:00PM sharp** on the date of the deadline for *all* students, regardless of when they enroll in the course. Late submissions *will not be accepted*.

Plagiarism Detection Tool

Normally, students will be required to submit their course essays to the University's plagiarism detection tool for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the tool's reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of this tool are described on the Centre for Teaching Support & Innovation web site (<https://uoft.me/pdt-faq>).

Students with Disabilities or Accommodation Requirements

This course is guided by the University of Toronto's goal to create a community that is inclusive of all persons and treats all members of the community in an equitable manner. In creating such a community, the University aims to foster a climate of understanding and mutual respect for the dignity and worth of all persons. Please find details here: <https://www.utoronto.ca/accessibility>.

Students with diverse learning styles and needs are welcome in this course. If you have a disability or a health consideration that may require accommodations, please register with [Accessibility Services](#) at the beginning of the academic year by visiting <http://www.studentlife.utoronto.ca/as/new-registration>. Accessibility Services will assess your situation, develop an accommodation plan with you, and support you in requesting accommodation for your course work. Only after you have registered will Accessibility Services verify your situation with your instructors, and the instructors will then be advised about your accommodation needs and the appropriate accommodations. An accessibility letter can then be provided to the teaching team before 1-2 business days a deadline for accommodations & special considerations to be arranged. The process of accommodation is private: Accessibility Services will not share details of your needs or condition with any instructor, and your instructors will not reveal that you are registered with Accessibility Services.

Academic Integrity

Honesty and fairness are fundamental to the University of Toronto's mission. Violations of the Code of Student Academic Integrity, including cases of suspected plagiarism and cheating, are treated very seriously. This will result in direct reporting to the department and upwards. Disciplinary action will be pursued to resolution. This is an unpleasant process for all involved, so please do not put yourself in this situation. Here are a few guidelines to help you avoid plagiarism.

Assignments

Assignments are **individual works**. This means that you are *not* allowed to seek advice from other students or copy/paste someone else's code, even open source codes from the Internet. You are allowed to look at online resources, tutorials, and Q&A; websites over the course of solving the problems. However, the entire code must be written by yourself. Submitting AI generated code is strictly forbidden and any violation will be persecuted with the fullest extent of the regulation.

Project

Unlike the assignments, you are allowed to download packages or use open source codes from the internet for the project. However, sharing even a small piece of code to other teams is strictly prohibited (neither giving to or taking from them is permissible). Online codes must include a reference to the webpage they are taken from.

Tests

Although all tests in this course are open book, you should only consult online manuals and lecture notes during the tests. Do not copy any code or answer from online forums such as Stack Overflow, Reddit, or generative AIs such as ChatGPT. You will be charged with academic offense if we discover students who submit identical pieces of code or phrases.

A Note on Generative AI

In this course, we actually do encourage you to use tools like ChatGPT and GitHub Copilot to help you with your assignments and projects. However, understand that its intended use is to help you learn the course material, and not do the work for you. E.g., you may look at the generated code to try understand how it may work, but then write your own version of the

solution. Directly copying the code from ChatGPT will not help you with mastery of the course content. In some cases, the generated answers may be incorrect.

Specific Medical Circumstances

Students who have missed class time and/or are experiencing illness or other emergencies that prevent them from being able to complete homework on time, or write a test, can request special consideration. You will be required to affirm that you are abiding by the [Code of Behaviour on Academic Matters](#), in particular, to be aware that it is an academic offence

to engage in any form of cheating, academic dishonesty or misconduct, fraud or misrepresentation not herein otherwise described, in order to obtain academic credit or other academic advantage of any kind

That is, you must be truly experiencing an emergency, and acknowledge that to falsely claim so is an academic offence. Making a request does not guarantee that you will always be granted special consideration.

Make-Up Quizzes/Tests

In the event of an illness or other catastrophe that causes you to miss the midterm, please email csc309-2024-01@cs.toronto.edu and provide an explanation. We may follow up to request supporting documentation. Please contact us before the midterm if at all possible, and at the very latest within one week of the midterm date. You should also declare your absence on Acorn, when appropriate (see the [Arts & Science guidelines](#)) and send the notification to the course email address.

Quercus Info (if using)

This Course uses the University's learning management system, Quercus, to post information about the course. This includes posting readings and other materials required to complete class activities and course assignments, as well as sharing important announcements and updates. New information and resources will be posted regularly as we move through the term. To access the course website, go to the U of T Quercus log-in page at <https://q.utoronto.ca>. SPECIAL NOTE ABOUT GRADES POSTED ONLINE: Please also note that any grades posted are for your information only, so you can view and track your progress through the course. No grades are considered official, including any posted in Quercus at any point in the term, until they have been formally approved and posted on ACORN at the end of the course. Please contact me as soon as possible if you think there is an error in any grade posted on Quercus.

Re-marking Policy - Timeline and Protocol

Re-marking requests must be made via the **remark request form** within one week of receiving your graded work. The request must include the written reasons as to why the students believe the work was incorrectly marked. Re-evaluation appeals are at the discretion of the teaching team. Note: adjustments in marks will be rare and could equally result in a lowering or raising of the mark. If a re-

reevaluation is completed by the instructors, the student must accept the resulting mark as the new mark, whether it goes up or down or remains the same. When appealing a re-evaluation decision, the student accepts this condition.

Course Materials, including lecture notes

Course materials are provided for the exclusive use of enrolled students. These materials should not be reposted, shared, put in the public domain, or otherwise distributed without the explicit permission of the instructor. These materials belong to your instructor, the University, and/or other sources depending on the specific facts of each situation and are protected by copyright. Students violating these policies will be subject to disciplinary actions under the Code of Student Conduct.