

CIS*1500 Introduction to Programming

Instructor

James Fraser
Pronouns:
he/him/they

jfrase09@uoguelph.ca

teaching assistants

Bhardwaj Aarushi
Lian Xiangyuan
Patel Aniketbhai
Patel Hrutvikkumar
Schinwald James
Sohi Gursahib

land acknowledgment

The Dish With One Spoon Covenant speaks to our collective responsibility to steward and sustain the land and environment in which we live and work, so that all peoples, present and future, may benefit from the sustenance it provides. As we continue to strive to strengthen our relationships with and continue to learn from our Indigenous neighbours, we recognize the partnerships and knowledge that have guided the learning and research conducted in and for this class. We acknowledge that the University of Guelph resides in the ancestral and treaty lands of several Indigenous peoples, including the Attawandaron people and the Mississaugas of the Credit, and we recognize and honour our Anishinaabe, Haudenosaunee, and Métis neighbours. We acknowledge that the work we do here occurs on their traditional lands so that we might work to build lasting partnerships that respect, honour, and value the culture, traditions, and wisdom of those who have lived here since time immemorial.

course description

CIS*1500 is a .5 credit course.

This course introduces problem-solving, programming and data organization techniques required for applications using a general-purpose programming language. Topics include control structures, data representation and manipulation, program logic, development, and testing.

This course is intended for students who do not intend to enroll in further CIS courses. If your degree requires additional CIS courses, CIS*1300 is required.

The [Academic Calendars](#) are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

learning outcomes

Knowledge and Understanding:

- Understand the basics of the variables, expressions, loops, and branching.
- Write, test, and interpret C programs.
- Understand the compilation process of the C programming language.

Personal Development:

- Demonstrate the ability to develop pseudocode for solving problems.
- Demonstrate the ability to convert pseudocode into C programming language.
- Demonstrate a working knowledge of the semantics and syntax of C.
- Apply course topics to develop more extensive software programs.

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prerequisites & restrictions

Prerequisites: None

Restrictions:

CIS*1300. Not available to students registered in a BCOMP degree, a CIS minor, BENG.CENG or BENG.ESC.

times

Lecture: Tuesday and Thursday: 4:00-5:20pm
Zoom Meeting

Labs:

- 101: Monday 3:30-4:20 PM
- 102: Wednesday 1:30-2:20 PM
- 103: Tuesday 11:30-12:20 PM
- 104: Wednesday 11:30-12:20 PM
- 105: Thursday 2:30-3:20 PM
- 106: Monday 11:30-12:20 PM
- 107: Thursday 9:30-10:20 AM
- 108: Monday 9:30-10:20 AM
- 109: Friday 10:30-11:20 AM
- 110: Thursday 11:30-12:20 PM
- 111: Wednesday 9:30-10:20 AM
- 112: Friday 12:30-1:20 PM
- 113: Tuesday 9:30-10:20 AM
- 114: Tuesday 2:30-3:20 PM

Final Exam **December 15 11:30-1:30 p.m.**
Online (with potential take-home component)

All lectures will be recorded. Lecture content will be presented during synchronous class time, and the recording will be available following the class.

An assigned TA will instruct a virtual lab session during this time the TA will explain the lab tasks and answer your questions about the weekly exercises.

communication

The primary mode of communication for this course is via email.
You are responsible for checking your email.

email cis1500@socs.uoguelph.ca
Do not use instructional team personal email addresses
use this email address for all course email

website [Courselink](#)
forums [For CIS*1500 on website](#)

appointments <https://james-fraser9.youcanbook.me> --> James Fraser
[Website Scheduler](#) --> TAs

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Textbooks

Top Hat

We will be using **Top Hat Pro** (www.tophat.com) for class participation. You will be able to submit answers to in-class questions using Apple or Android smartphones and tablets, laptops, or through text message. For instructions on how to create a Top Hat account and enrol in our Top Hat Pro course, please refer to the invitation sent to your school email address or consult Top Hat's Getting Started Guide (<https://bit.ly/31TGMlw>).

If you already have a Top Hat account, go to <https://app.tophat.com/e/947311/> to be taken directly to our course. If you are new to Top Hat, follow the link in the email invitation you received or...

- Go to <https://app.tophat.com/register/student>
- Click "Search by school" and input the name of our school
- Search for our course with the following join code: **947311**

If a paid subscription is required, it will be listed at checkout when you enrol in our Top Hat Pro course.

Should you require assistance with Top Hat at any time please contact their Support Team directly by way of email (support@tophat.com), the in-app support button, or by calling 1-888-663-5491. Specific user information may be required by their technical support team when troubleshooting issues.

Suggested References:

The C Programming Language (2nd Edition, Kernighan and Ritchie)

C Programming: A Modern Approach (K. N. King) can be used as supplementary reading if desired.

weighted assessments schedule

Each assignment builds from the previous, so all assignments must be done. Lab exercises must be completed on your own before the due date.

7%	Labs 7 Labs; 1% Due: Sundays 11:59pm
7%	Participation TopHat – Points per Section
15%	Assignment One (A1) October 10 th , 11:59 pm
15%	Assignment Two (A2) November 7 th , 11:59 pm
20%	Assignment Three (A3) November 28 th , 11:59 pm
36%	Final Exam December 15, 11:30 a.m.

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topics by date (expected)

Week	Date	Topic
W0	Sept 9 -	Course Introduction
W1	Sept 13 -	Introduction to C – Variables
W2	Sept 20 -	Expressions
W3	Sept 27 -	Decisions and Branches
W4	Oct 4 -	Loops
W5	Oct 11 -	Arrays
W6	Oct 18 -	Strings
W7	Oct 25 -	Advanced Loops
W8	Nov 1 -	Functions
W9	Nov 8 -	User Functions
W10	Nov 15 -	File IO
W11	Nov 22 -	Structures
W12	Nov 29 -	Exam information and Review
Exam	December 15	

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computing requirements

All homework will be completed using the C programming language. Third-party libraries and frameworks may be used only with explicit approval of the course instructor. Work submitted for grading will be graded using Debian Linux. Keep reliable backup copies of all assignments as you may be asked to resubmit work at anytime.

You must have access to a computing device and internet connection that allows you to share your screen in online meetings while having a voice conversation. While sharing your screen you will be asked to run your java programs so the device you use must be capable of compiling and running your java assignments.

A video feed is nice for online meetings but is not required.

academic integrity

The University of Guelph is committed to upholding the highest standards of academic integrity, and it is the responsibility of all members of the University community faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. All students who take a SOCS course must pass the Academic Integrity Self Test.

For educational purposes, instructors impose conditions on assignments that may limit students' permission to collaborate with others or to utilize external sources (including, but not limited to, software, data, images, text, etc.). Any permitted utilization must be done with proper references. Aiding and abetting is a punishable offence; students must be careful not to help others commit offences by giving out solutions or providing access to computer accounts. Instructors may use automated tools to detect possible cases of academic misconduct.

MOSS (Measure of Software Similarity) All graded submissions will be processed using MOSS (Measure of Software Similarity) software, which is capable of detecting code that has been replicated from another submission or an online resource - even if it has been slightly changed. Submissions with >30% of copied lines of code will be subjected to academic misconduct review.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member.

- [The UofG Academic Misconduct Policy in the Undergraduate Calendar](#).
- [The SOCS Academic Integrity Unit](#). Login with your central login credentials.

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policies

- **Regrades:** If errors were made in the grading of your work, you must, in writing, present your case to the teaching assistant within 5 days of receiving your grade. Be specific about what you believe was graded incorrectly. Your submission will be completely regraded. This could result in your grade being reduced. It would not be a grading error if you got a lower grade than you were expecting.
- **Missed or Late Assessments:** If you are unable to meet an in-course requirement due to medical, psychological, or compassionate reasons, please get in touch with the Instructor and explain the situation. If you merit academic consideration for one of the assessments, you will be given an alternate assessment. Please remember, however, that each of the homework assignments builds from the previous one. This means that if you do not submit an earlier assignment, you will still have to complete it in order to do the subsequent assignments.

Please [consult the undergraduate calendar](#) for information on regulations and procedures for Academic Consideration.
- **Communication & Email Policy** Major announcements will be posted to the course website. It is your responsibility to check the course website regularly. As per university regulations, all students are required to check their mail.uoguelph.ca email account regularly: email is the official route of communication between the University and its students.
- **Recording of Materials** Presentations which are made in relation to course work, including lectures, cannot be recorded or copied without the permission of the Instructor and presenter, whether the Instructor, classmate, or guest lecturer. Material recorded with permission is restricted to use for that course and may not be posted on any public space unless further permission is granted.
- **Accommodation of Religious Obligations:** if you are unable to meet an in-course requirement due to religious obligations, please email the Instructor **within two weeks of the start of the semester** to make alternate arrangements. See [the academic calendar](#) for information on regulations and procedures for Academic Accommodation of Religious Obligations.
- **Instructor's Role and Responsibility to Students** The Instructor's role is to develop and deliver course material to facilitate learning for a variety of students. A variety of materials, including notes and recorded lectures, will be made available on the course website.
- **Students' Learning Responsibilities** Students are expected to take advantage of the learning opportunities provided during lectures, labs, and help sessions. Students, especially those having difficulty with the course content, should also make use of other resources recommended by the Instructor. Students who fall behind due to illness, work, or extra-curricular activities are advised to inform the Instructor about their situation as early as possible. This will allow the Instructor to recommend extra resources in a timely manner and/or provide consideration if warranted.
- **Accessibility** **The University of Guelph**, is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability, or for a short-term disability should contact Student Accessibility Services (SAS) as soon as possible.

For more information, contact SAS at 1.519.824.4120 ext 56208 or accessibility@uoguelph.ca or wellness.uoguelph.ca/accessibility.

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code of conduct

Our learning environment must be a safe, and welcoming environment for all, regardless of ethnicity, gender, sexual orientation, ability, socioeconomic status, and/or religion (or lack thereof). This code of conduct outlines the expectations for all participants ¹.

- **Expected Behaviour:** Members of our learning community are expected to:
 - participate in an authentic and active way, and in doing so, contribute to the health and value of our community,
 - exercise consideration and respect in their speech and actions,
 - attempt collaboration before conflict,
 - refrain from demeaning, discriminatory, or harassing behaviour and speech,
 - be mindful of your surroundings and your fellow participants, and alert community leaders (e.g. your Instructor) if you notice a dangerous situation, someone in distress, or violation of this Code of Conduct, even if it seems inconsequential.
- **Citizenship & Participation:** Communities mirror the societies in which they exist and positive action is essential to counteract the many forms of inequality and abuses of power that exist in society. If you see someone who is making an extra effort to ensure our community is welcoming, friendly, and encourages all participants to contribute to the fullest extent, we want to know.
- **Unacceptable Behaviour:** Unacceptable behaviours include: intimidating, harassing, abusive, discriminatory, derogatory or demeaning speech or actions by any participant in our community, either in person, online, at any related events, or in one-on-one communications carried out in the context of community business. Harassment includes: harmful or prejudicial verbal or written comments related to race, religion, disability, gender, sexual orientation; inappropriate use of nudity and/or sexual images in public spaces (including computer labs and presentation slides); deliberate intimidation, stalking or following; harassing photography or recording; sustained disruption of talks or other events; inappropriate physical contact, and unwelcome sexual attention.
- **Consequences of Unacceptable Behaviour:** Unacceptable behaviour from any community member, including the course instructor and those members with decision-making authority, will not be tolerated. Anyone asked to stop unacceptable behaviour is expected to comply immediately. If a community member engages in unacceptable behaviour, action will be taken to ensure that such behaviour ends, beginning with action on the part of the course instructor, and escalating if necessary. Additional information on University policy regarding harassment, conduct, and human rights is available [here](#).
- **If You Witness or Are Subject to Unacceptable Behaviour or Have Any Other Concerns:** please notify the course instructor as soon as possible. If you feel that the course instructor cannot or will not provide remedy for the situation, please contact any of these alternate resources:
 - Associate Director, Undergraduate ([click here to email](#)),
 - Director of the School ([click here to email](#)),
 - Associate Dean, Academic ([click here to email](#)),
 - Office of Diversity and Human Rights ([click here to email](#), or ext 53000),
 - Campus Community Police (ext 52245).

¹Based on [citizen code of conduct](#), distributed under a [Creative Commons Attribution-ShareAlike](#) license

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health & wellness

All members of campus play a role in fostering and promoting a safe, supportive environment, as well as good physical, emotional, spiritual, cultural, and mental health and wellness. COVID-19 has required all of us to adjust our work habits and our expectations of ourselves. I cannot change the expectations for you, but if you are struggling because of challenges related to COVID-19, please contact me and I will try to help you identify a path to success.

If you are sick, heartbroken, or exhausted, go home. Work is not more important than your health.

[Dr. Max Liboiron](#)

If you are experiencing any challenges, please do not hesitate to contact the Instructor, and know that there are resources on campus set up to help you out.

Medical concerns? Student Health Services at x52131

Threats of violence, personal safety? Campus police at x2000

Psychological or emotional concerns? Counselling services at x53244

Accessibility concerns? SAS at x56208

Sexual assault? Campus police at x2000, or counselling services at x53244

Mental Health concerns? Please see the Mental Health Resources page [here](#).

Students who are also parents often face the barrier of exhaustion in the evening once children have finally gone to sleep. While I maintain the high expectations for all students in my classes regardless of parenting status, I am happy to problem-solve with you in a way that makes you feel supported as you strive for school-parenting balance.

Other sources of help can be found at the following links:

- [Student Health Services](#), Monday to Friday, 8:30am-4:30pm, x52131, J.T. Powell Building
- [Counselling Services](#), Monday to Friday, 8:15am-4:15pm, x53244, Level 3, University Centre
- [Wellness Education Centre](#), Monday to Friday, 8:30am-4:30pm, x53327, J.T. Powell Building
- [Student Support Network](#), Monday to Friday, 12:00pm-10:00pm, Raithby House
- [Campus Community Police](#), 24/7, x2000, Trent Building
- Good2Talk, 1.866.925.5454
- Here 24/7, 1.844.437.3427