

CIS*2500 Programming

Winter 2021



School of Computer Science

1 INSTRUCTIONAL SUPPORT

Section 01: MWF – 2:30pm – 3:20pm Virtual

Instructor: Ritu Chaturvedi
Office: Reynolds 2211
Email: cis2500@socs.uoguelph.ca
Office hours on **MS Teams**: Tuesday 10 – noon (except Jan 12th)

Teaching Assistants: To be posted on the course website
Email: cis2500@socs.uoguelph.ca
Office Hours: to be posted on the course website

2 LEARNING RESOURCES

2.1 SoCS Linux Environment

2.1.1 SoCS NoMachine Graphical Linux Environment: nomachine.socs.uoguelph.ca is a Graphical Linux environment, available remotely for SoCS students. When logged in you will have access to the same servers as linux.socs.uoguelph.ca but with a graphical desktop interface. Details on download and installation of nomachine can be found at <https://wiki.socs.uoguelph.ca/techsupport/guides/nomachine>.

2.1.2 SoCS SSH Access: SSH Allows you to remotely connect to SoCS Linux servers. To connect from a Linux or Mac OS/X base computer, use the command “ssh <username>@<hostname>.socs.uoguelph.ca”, where <username> is your SoCS username and <hostname> is the name of the server you wish to connect to (i.e. linux, portkey). To connect from Windows use BitVise SSH or [PuTTY](#). More information on this will be available on your course webpage.

2.2 Course Website

Course material, news, announcements, and grades will be regularly posted to the CIS*1500 Website which can be found at moodle.socs.uoguelph.ca. Use your gryphmail login/password to access moodle. You are responsible for checking the site regularly. The course key (for use AFTER you log in) is: iLoveProgramming

2.3 Textbook

C Programming, A Modern Approach (2nd edition) By K.N.King. Publisher - Norton and company.

2.4 Course Calendar Description:

In this course students learn to interpret a program specification and implement it as reliable code, as they gain experience with pointers, complex data types, important algorithms, intermediate tools and techniques in problem solving, programming, and program testing.

The Academic Calendars are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs:
<http://www.uoguelph.ca/registrar/calendars/index.cfm?index>

2.6 Course Topics:

- Working with memory
- Dynamic memory allocation
- Arrays, strings
- Files
- Data structures and Algorithms
- Function Pointers
- Software design & testing

2.5 Important Dates:

- *Monday January 11th* : First day of class
 - *Monday, February 15th – Friday, February 19th*: Winter break - NO CLASSES SCHEDULED
 - *Friday, April 2nd* : Holiday – NO CLASSES SCHEDULED – classes rescheduled to Monday, April 12
 - *Monday, April 12th*
 - Classes rescheduled from Friday, April 2, Friday schedule in effect
 - Classes conclude
 - *Thursday, April 15th*: Exams start
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3 ASSESSMENT

3.1 Dates and Distribution

Practical (58%):

- **Learning activities (Weekly Worksheets): 8%**
 - Due every Friday 11:59pm (1% per submission to a max of 8% - drop lowest grades)
- **Programming Labs: 16%**
 - **4 labs * 4% each**
 - Due Friday 11:59pm of the week
- **Assignments: 34%**
 - A1 (7%): Due Wednesday January 27th 11:59pm
 - A2 (9%): Due Wednesday February 24th 11:59pm
 - A3 (9%): Due Wednesday March 17th 11:59pm
 - A4 (9%): Due Saturday April 3rd 11:59pm

Exams (42%):

- **(Online) Quizzes: 18%**
 - 6 quizzes * 3% each
 - Due Sunday 11:59pm of the week
- **Final Exam: 24%**

3.2 Followup Assessment Competency Exam (FACE)

To avoid potential academic misconducts, at least two programming assessments (labs or assignments) will be evaluated through an oral competency exam via virtual meetings so that we can verify that students are

responsible for completing their work. If there are noticeable discrepancies between these evaluations and a student's performance on the programming labs and assignments, a penalty will be applied for that lab or assignment.

3.2 Requirement to pass the course

To pass the course you need to:

- Achieve an overall grade of 50% or above
- Pass the Exams component (50% or above on the weighted average of the quizzes and final exam)
 - o You may fail any of the quizzes or final exam as long as your weighted average of all quizzes and final exam remains above 50%.

If you do not pass the Exams component:

- Your final grade will be equal to the weighted sum of the weekly worksheets, quizzes and final exam.

3.3 Course Grading Policies

Missed Labs: If you miss a lab due to **documented** grounds for granting academic or religious accommodation, the weight of the missed assessment will be added to the final exam. There will be no makeup labs and you may not attend a lab section other than the one in which you are registered (unless otherwise permitted).

Late Assignments: Late assignments will not be accepted. There are no makeup assignments. Assignments submitted after the due date are assigned a grade of 0.

Regrades: Regrading can be done in 2 steps:

Step 1: Requests for regrades of assignments 1, 2 and 3 must be emailed to cis2500@socs.uoguelph.ca within 5 business days of receiving your mark. The request must have the word **regrade** and the name of the assignment or exam in the subject line and must contain a detailed description of why you feel the assignment should be regraded.

Step 2: You will then book an appointment for your assignment to be regraded in person or on Teams. It is important to note that your assignment/exam will not be regraded unless you meet a TA on Teams.

Note: There is no regrade option for Assignment 4.

Note: It is important to note that a regrade is not a chance to redo the assignment. The original submission will be graded.

Missed Assessments: If you are unable to meet an in-course requirement due to medical, psychological, or compassionate reasons, please make an appointment to meet your course instructor. Please see below for specific details and consult the undergraduate calendar for information on regulations and procedures for Academic Consideration:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Accommodation of Religious Obligations: If you are unable to meet an in-course requirement due to religious obligations, please email the course email address **within two weeks of the start of the semester** to make alternate arrangements. See the undergraduate calendar for information on regulations and procedures for Academic Accommodation of Religious Obligations:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-accomrelig.shtml>

4 TEACHING AND LEARNING ACTIVITIES

You are responsible for learning the material for this course. Computer programming can only be learned through practice. The lab component of this course will be entirely devoted to helping you learn to create algorithms and solutions to computing problems. The textbook exercises and the optional coding clinics are designed to help you understand the mechanics of the C language. Lectures will provide an overview of the topics, examine common applications, and introduce design techniques.

Below you can find the tentative schedule for lectures and labs. Changes to this schedule will be announced on the course website.

4.1 Schedule

Monday		Worksheets	Labs	Quizzes	Assignments	Final Exam
11-Jan	Week 1	W1 (Ungraded)				
18-Jan	Week 2	W2	L1	Q1		
25-Jan	Week 3	W3			A1	
01-Feb	Week 4	W4		Q2		
08-Feb	Week 5	W5	L2	Q3		
15-Feb	Week 6	STUDY BREAK	STUDY BREAK	STUDY BREAK	STUDY BREAK	STUDY BREAK
22-Feb	Week 7	W7			A2	
01-Mar	Week 8	W8	L3	Q4		
08-Mar	Week 9	W9				
15-Mar	Week 10	W10			A3	
22-Mar	Week 11	W11	L4	Q5		
29-Mar	Week 12	W12		Q6		
05-Apr	Week 13				A4	

5 ROLES AND RESPONSIBILITIES

5.1 Communication & Email Policy

Please use lectures, lab sessions, and the discussion forum as your main opportunities to ask questions about the course. Questions that are specific to your particular situation may be emailed to cis1300@socs.uoguelph.ca and will be answered by one of the instructional team. Extremely private communication should be conducted in person by making an appointment with the course instructor.

Major announcements will be posted to the course website and/or the discussion forums. **It is your responsibility to check the course website regularly.** As per university regulations, all students are required to check their <uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

5.2 Recording of materials

Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the 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.

5.3 Copies of out-of-class assignments

Students must keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

5.4 Instructor's Role and Responsibility to Students

The instructor's role is to develop and deliver course material in ways that facilitate learning for a variety of students. Selected notes will be made available to students on the course website but are not intended to be stand-alone. During lectures, the instructor will expand and explain the content of notes and provide example problems that supplement posted notes. Scheduled classes will be the principal venue to provide information and feedback for exams and assignments.

5.5 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 keep the instructor informed as early as possible. This will allow the instructor to recommend extra resources in a timely manner and/or provide consideration if appropriate.

5.6 Instructions pertaining to online delivery

Do not redistribute recorded interactive discussions that involve your classmates. This includes advising times and question and answer sessions with the instructor.

Online activities such as advising times, question and answer sessions, and interactive lectures may be recorded by the instructor or TAs and posted to Courselink or Moodle. By taking this course you are agreeing that your participation in these activities can be used in this manner. If you do not wish to have your image or voice recorded as part of these activities then either do not take this course or do not ask verbal questions during these activities.

A reliable internet connection that is sufficient for online learning is necessary for this course. If you do not have a sufficiently fast and reliable internet connection then you may not be able to view or download lectures or other course material. It may also not be possible to attend online advising with teaching assistants or the instructor.

This course is offered in the eastern standard time zone (EST). While taking this course then you may be required to attend online activities such as advising times or labs between 9:00 and 4:30 EST.

6 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 to access computer accounts. Instructors may use automated tools to detect possible cases of academic misconduct.

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 Academic Misconduct Policy is detailed in the Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

The SOCS Academic Integrity Unit:

<http://moodle.socs.uoguelph.ca/course/view.php?id=2> Login with your central login credentials.

7 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 [519-824-4120](tel:519-824-4120) ext. 56208 or email csd@uoguelph.ca or see the website: <http://www.uoguelph.ca/csd/>