CIS*1500 Introduction to Programming

Fall 2018

UNIVERSITY of GUELPH

School of Computer Science

1 INSTRUCTIONAL SUPPORT

Section 01: T/Th 4:00 – 5:20 pm ROZ 104
Section 02: T/Th 1:00 – 2:20pm ROZ 103
Section 03: M/W 5:30 – 6:50pm TH 1200

Instructor: Ritu Chaturvedi
Office: Reynolds room 2211
Email: cis1500@socs.uoguelph.ca
Office hours: Tuesday, Wednesday 10:00am – 12:00 noon

Teaching Assistants: TBA
Email: cis1500@socs.uoguelph.ca
TA Office Hours and location: 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 puTTY or BitVise SSH (https://putty.org/).

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: cforthewin

2.3 Required Textbook

- We are using a required electronic textbook for this course.
  - Sign up at zyBooks.com and purchase the textbook
  - Enter zyBook code UOGUELPHCIS1500ChaturvediFall2018
  - Click *Subscribe*

2.4 Calendar Description

Introductory 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. For students who require a good understanding of programming or are planning on taking additional specialist Computing and Information Science courses.

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

2.5 Course credit and prerequisites:

- Course credit: 0.5
- Prerequisites: None

2.5 Important Dates:

- Thursday, September 6th: First day of class
- Monday, October 8th: Thanksgiving, NO CLASSES / NO LABS, classes rescheduled to Friday Nov 30th
- Tuesday, October 9th: Fall day break, NO CLASSES / NO LABS, classes rescheduled to Friday Nov 29th
- Friday, November 2nd: 40th Class Day- last day to drop
- Friday, November 30th: Classes conclude

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3 ASSESSMENT

3.1 Dates and Distribution

Practical (45%):

Daily Practice: **10%**
Exercises from textbook
Due each Wednesday at 11:55 pm. (1% per submission to a max of 10%- drop lowest grades)

Lab Writeups: 10%
Due 11:55pm the day after your assigned lab unless otherwise noted. You must attend your assigned lab or your submission will not be graded. 1% each

Assignments: 25%
A1 (5%): Due October 5th (Friday) 10:00 pm
A2 (10%): Due November 2nd (Friday) 10:00pm
A3 (10%): Due November 26th (Monday) 10:00pm

Exams (55%):

Labs Exams: **20%**
Week 6 (Oct 15th – 19th) in assigned lab time (10%)
Week 11 (Nov 19th – 23rd) in assigned lab time (10%)

Final Exam: **35%**
Time and place: TBA
The final exam is multiple choice. There is no midterm for this course.
You will have access to practice questions throughout the semester that will help you prepare for the final exam.

3.2 Course Grading Policies

Missed Lab Exams: If you miss a lab exam 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 lab exams.

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.

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 and 2 and lab exams must be emailed to cis1500@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/exam to be regraded in person. It is important to note that your assignment/exam will not be regraded unless you meet a TA in-person.

Note: There is no regrade option for Assignment 3.

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

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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 Lecture and Lab Schedule

Lectures	Lecture Topics	Labs	Notes
Week 1 (Sept 10th)	Introduction to C	No labs this week	
Week 2 (Sept 17th)	Using Variables and Functions	Lab 1	
Week 3 (Sept 24th)	Branches	Lab 2	
Week 4 (Oct 1st)	Loops	Lab 3	A1 due Oct 5th
Week 5 (Oct 8th)	User Defined Functions	Lab 4 (Practice LE)	No classes on Oct 8th, 9th
Week 6 (Oct 15th)	Arrays	Lab Exam I	Lab Exam I
Week 7(Oct 22nd)	Strings	Lab 5	
Week 8 (Oct 29th)	Functions II	Lab 6	A2 due Nov 2nd
Week 9 (Nov 5th)	Input / Output	Lab 7	
Week 10 (Nov 12th)	Structures	Lab 8	
Week 11 (Nov 19th)	Recursion	Lab Exam II	Lab Exam II
Week 12 (Nov 26th)	Final Exam Review	No Labs this week	A3 due Nov 26th

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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 cis1500@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 the discussion forums. **It is your responsibility to check the course website regularly.** As per university regulations, all students are required to check their <mail.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 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.

5.4 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.

5.5 Copies of out-of-class assignments

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.

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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.

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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 ext. 56208 or email csd@uoguelph.ca or see the website:
http://www.uoguelph.ca/csd/