Overview

Provides an introduction to fundamental programming principles for first-year Software Engineering students. Topics include: procedures and parameter passing, arrays and structures, recursion, sorting, pointers and simple dynamic structures, space and time analysis of designs, and design methodologies. The course will be taught using the C programming language.

Course Outline


Section and Instructor Information

Section 001, 3:30-4:20M, 1:30-2:30 WF, MC 1085 and the following Fridays:
September 22nd, October 6th, November 3rd, November 17th 3:30-4:30 MC 1085
No lectures the week of October 16th due to midterms.
Lab: Tuesday September 12th at 8:30-9:20 or 9:30-10:20 MC 2062
Tutorials: Tuesdays (From September 19th on) at 8:30-9:20 or 9:30-10:20 MC 4041
Carmen Bruni, DC 3142 (later DC 3119), cbruni@uwaterloo.ca

Websites:

- www.student.cs.uwaterloo.ca/~cs137
- https://piazza.com/

Office Hours: Mondays 1:00-1:55 and Tuesdays 8:30-10:30am in DC 3142 (or DC 3119 later). (Subject to change)
Office Hours for our ISA Alex Rowaan: Tuesdays and Thursdays 4:00-5:30pm in MC 4065. Email address: cs137@uwaterloo.ca.
Instructional support coordinator: Chantelle Gellert, MC 4011, ccgeller@uwaterloo.ca ext. 37627

Course Website

In this course, we will use Marmoset, Piazza and a public website.

- All content related to the course lectures will be on the public website stated above.
- All content relating to grading (assignments, tests, etc.) will be on the website (password protected).
- All non-personal questions should be posted on Piazza.
- All homework submissions will be done on Marmoset.
Textbook

Mark Computation:

- Assignments 8% (10 assignments, take best 8 of last 9. No exceptions will be granted for any assignments. A0 is worth 0% but must be completed to receive grades for others and cannot be exempt.)

- Midterm Exam (Friday October 20th from 8:30-10:20am in RCH 301 and 302) 35% Updated September 22nd, 2017

- Final Exam and In Class Clickers (the maximum of 57%, 0% and 50%, 7%). Final exam date will be announced later.

Course Work
There are clicker questions (see below), ten assignments, a midterm exam, and a final exam. The first assignment will not be graded; the remaining assignments are worth 1% each. Assignments are due at 9 pm on Thursdays, as indicated on the course website (Exceptions: October 19th and 26th there will be no assignments due). Assignments must be submitted through the course website using Marmoset. All grades will be listed on the website (password protected). Due dates are firm and final. Late work will receive a grade of 0. This includes instances of illness (so use your freebie wisely!)

Clickers
Clickers are an in class polling system we will be using. Throughout the term, I will be presenting questions in class and then polling the audience. For these questions, students will receive 2 points for a correct answer and 1 point for any answer and your best 75% of questions will count towards this component. This will be used in conjunction with your final examination to determine a portion of your final grade (either 7% clickers and 50% final exam or 0% clickers and 57% final exam; whichever is greater).

Plagiarism
All work in CS 137 is to be done individually. The penalty for plagiarism on assignments (first offense) is an assigned mark of 0 percent on the assignment and a 5 percent reduction of the final grade, consistent with School of Computer Science policy. In addition, a letter detailing the offense is sent to the Associate Dean of Undergraduate Studies, meaning that subsequent offenses will carry more severe penalties, up to suspension or expulsion. We will run Moss on your submissions to ensure there is no plagiarism. Please note: Sending pictures of solutions/attempted solutions to one another is an act of plagiarism! Discussing solutions with friends is okay and encouraged provided you are alone by yourself with no notes while you type/write up your formal solutions! If you cannot type up your solutions without aides, then you really haven’t figured out how to do the problem. There is also an excellent memo on posting solutions on GitHub/publicly. Please do not do this as this is also an act of plagiarism (Waterloo has a private GitHub repository
where you can host solutions to share only with employers looking for a record of your work).

**Academic Integrity**

In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. Check the academic integrity Web site for more information at https://uwaterloo.ca/academic-integrity/.

**Grievance**

A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70, Student Petitions and Grievances, Section 4, at http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm. When in doubt please be certain to contact the department’s administrative assistant who will provide further assistance.

**Discipline**

A student is expected to know what constitutes academic integrity to avoid committing academic offenses and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about ‘rules’ for group work/collaboration should seek guidance from the course professor, academic advisor, or the undergraduate associate dean. For information on categories of offenses and types of penalties, students should refer to Policy 71, Student Discipline, at http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm. For typical penalties check Guidelines for the Assessment of Penalties at http://www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm.

**Appeals**

A decision made or penalty imposed under Policy 70, Student Petitions and Grievances (other than a petition) or Policy 71, Student Discipline may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72, Student Appeals, at http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm.

**Illness**

As mentioned there will be no exceptions for assignments whatsoever (you get one free assignment). For a midterm or final exam, a doctor’s note must be provided within 48 hours of the exam (exceptional circumstances can apply if necessary). If such a situation arises, a makeup exam will be administered by the Instructional Support Coordinator. Failure to arrange a suitable sitting will result in an INC for the course.

**Disabilities**

Note for students with disabilities: AccessAbility Services, located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum (see http://uwaterloo.ca).
If you require academic accommodations to lessen the impact of your disability, please register with them at the beginning of each academic term.