Last revised: October 4, 2016

Course Philosophy:

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.

Related Courses:

Antirequisites: CS 115, 135, 136, 145, CHE 121, CIVE 121, ECE 150, GENE 121, PHYS 239, SYDE 121

Successor: CS 138.

Instructor:

Andrew Morton

Email: andrew.morton@uwaterloo.ca

Office hours: Fridays 12:30-1:20

Office: EIT 4015

Phone: 519-888-4567 x31222

Instructional Support Coordinator:

Travis Bartlett

Email: trbartle@uwaterloo.ca

Office: MC 4011

Phone: 519-888-4567 x38307
ISA:
Alex Rowaan

Email: es137@uwaterloo.ca

Office hours: Tuesdays and Thursdays 4:00-5:00pm

Office: MC 4065 (Computer Science Consulting Centre)

Schedule of classes:

Class (all students): MC 1085, 2:30-3:20 MWF

Class (all students): OPT 1129, 10:30-11:20 Tues, only on 09/13, 09/27, 10/11, 10/25, 11/08, and 11/22

Note: only half of the make-up lectures in OPT 1129 will be used, check Piazza ahead of time for an announcement

Lab (section 101): MC 2062, 8:30-9:20 Tues, only on 09/13

Lab (section 102): MC 2062, 9:30-10:20 Tues, only on 09/13

Tutorial (section 201): MC 4062, 8:30-9:20 Tues, starting on 09/20

Tutorial (all students): MC 4060, 9:30-10:20 Tues, starting on 09/20

Textbook: K.N. King, C Programming: A Modern Approach, second edition. A copy is on 3 hour reserve in the library under the call number UWD1450 (this means you can take it out for a maximum of 3 hours).

Marks Computation:

Assignments 9%

Quizzes 6%

Midterm Exam 35%

Final Exam 50%

Grading: There are three quizzes, ten assignments, a midterm exam, and a final exam. Quizzes are worth 2% each and will be written in class on dates to be announced. The first assignment will not be graded;
the remaining assignments are worth 1% each. Assignments are due at 9 pm on Wednesdays, as indicated on the course Web site. Assignments must be submitted through the course Web site using Marmoset. All grades will be listed on the Web site (password protected). Due dates are firm and final. Late work will receive a grade of 0.

**Marking:** Policy on Plagiarism: All work in CS 137 is to be done individually. The penalty for plagiarism on assignments and quizzes (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.

**Every course outline must contain the following information, as mandated by the University Senate.**

**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 www.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 policy:** The Computer Science illness policy may be found at http://www.student.cs.uwaterloo.ca/~isg/policies/illness.

**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/disability-services). If you require academic accommodations to lessen the impact of your disability, please register with them at the beginning of each academic term.