MEMORIAL UNIVERSITY OF NEWFOUNDLAND
Department of Computer Science

Computer Science 1000 - Computer Science - An Introduction
Winter Semester 2018

Instructor: Todd Wareham
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Note: There is a **Computer Science Student Help Centre** located in EN-2031C, (864-4772). Please check the Computer Science home page www.mun.ca/computerscience for hours of operation each semester.

Course Objectives

This course gives students an overview of computer science providing them with a foundation from which they can better appreciate and understand their chosen field of study.

Textbook

Invitation to Computer Science (7th Edition) by G. M. Schneider and J. L. Gersting, 2016.

Invitation to Computer Science, Laboratory Manual (5th Edition) by K. Lambert and T. Whaley, 2013. (*Discontinued from the publisher, electronic copies of related chapters will be posted in Brightspace).

Evaluation

The final grade in the course will be determined as follows:

Assignments	10%
Laboratory quizzes	20%
Midterm examination (Monday, February 12, 2018)	25%
Final examination	45%
	100%

Format

Lectures, three hours per week, and laboratory, three hours per week**.**

Lecture Time:	Section 001 - Slot 07, M, W, F, 2:00 p.m. - 2:50 p.m.
	Section 002 - Slot 07, M, W, F, 2:00 p.m. - 2:50 p.m.
Lecture Room:	EN-2006
Lab Time:	Section 001 - Slot 64, Thursday 2:00 p.m. - 4:50 p.m.
	Section 002 - Slot 44, Thursday 9:00 a.m. - 11:50 a.m.
Lab Room:	CS-1019

Assignments and course notices will be on Brightspace (D2L); course notes will be available at: http://www.cs.mun.ca/~harold/Courses/CS1000/

Course Schedule

Week	Dates	Chapter(s)	Topic(s)
1	January 5	1, 2	Introduction
2	January 8 - 12	2, 3	Algorithms
3	January 15 - 19	4	Number Systems and Boolean Logic
4	January 22 - 26	4, 5	Circuits and Computer Organization
5	January 29 - February 2	5	Computer Organization
6	February 5 - 9	6	System Software, Review
7	February 12 - 16	6	**(Midterm Exam - February 12)** System Software
8	February 19 - 23 **(Midterm Break)**		
9	February 26 - March 2	9, 10	High-level languages, Python Programming
10	March 5 - 9	Notes	Python Programming
11	March 12 - 16	12	Models of Computation
12	March 19 - 23	15	Artificial Intelligence
13	March 26 - 30 **(Good Friday Holiday - March 30)**	7	Networks, Review
14	April 2 - 6		Review
	Final Exams: Wednesday, April 11 to Friday, April 20		

Notes

1. Labs for both sections begin on Thursday, January 18, 2018.

2. There will be no lectures or labs from Monday, February 19 to Friday, February 23 (Midterm Break). There will be no lectures or labs on Friday, March 30 (Good Friday Holiday).

3. In the event of university closure on the day of a test, the test will be given in the next class meeting.

4. Assignments are due at **11:59 p.m.** on the specified date, electronically through Brightspace (D2L) Dropbox. (See following table.) No late assignments will be accepted. Be aware that the files you submit for evaluation should be uploaded on or before the due date and much before the cut off time, **11:59 p.m. Newfoundland Time**. Even if you are late by a few seconds you will not be allowed to submit your work; hence you should try to upload the files at least 15 minutes before the cut off time since your system clock is not synchronized with the CITL's system clock and the cutoff time is based on CITL's system clock. Please note that if your files have been correctly uploaded, you will get a confirmation receipt from the **Dropbox** tool. If you do not receive this receipt, please contact the CITL Support team (https://www.citl.mun.ca/support/). It is your responsibility to make sure that the **correct** files are actually uploaded, so please **do** check for the confirmation that your files have been uploaded.

5. Lab attendance is required. Labs are to be completed during your assigned lab period. Each lab period will end with a quiz (given during the last half-hour) on material covered in class and in the lab. The quiz is the only means of obtaining credit for work done during the lab period.

6. If, for special circumstances (such as medical or bereavement) you miss a lab, quiz, assignment or test, notify your instructor, providing any related documentation (if documentation is required). Failure to do this will result in a mark of 0% for that work. Please refer to the current University policy regarding medical notes and the information to be in them. For more information, please see the University Calendar - University Regulations - General Academic Regulations (Undergraduate) 6.7.5 and 6.15.6 or consult the Registrar's Office.

7. No Deferred Midterms and Supplementary Exams will be available for this course. (See **Supplementary Exams** - University Calendar - Faculty of Science Degree Regulations 7.3 - Regulations to Govern Supplementary Exams in the Departments of Biochemistry, Computer Science, and Mathematics and Statistics.)

8. **Exemptions from Parts of the Evaluation** - University Calendar - General Academic Regulations (Undergraduate) - 6.7.5 and 6.15.6.

9. **Academic Misconduct** - University Calendar - General Academic Regulations (Undergraduate) - 6.12.

10. The lab instructor and instructional assistants are available to help students. (See the Instructional Staff Contact Information and Schedule link from the course Brightspace (D2L) page.)

11. Any e-mail messages to the instructor should contain **[COMP1000]** in the subject line. For more timely response, please send your email to my **harold@mun.ca** address rather than my D2L address.

12. Memorial University of Newfoundland is committed to accommodation of students with disabilities.

Lab, Quiz and Assignment Schedules

Lab	*Quiz*	*Thursday (Slots 64 & 44)*	*General Topics*
0		January 18	Introduction
1	1	January 25	Algorithms
2	2	February 1	Number Systems
3	3	February 8	Circuits
4	4	March 1	Von Neumann & Assembly Language
5	5	March 8	Python I (Sequential & If)
6	6	March 15	Python II (Nested If & Loops)
7	7	March 22	Python III (For loop, Functions & Graphics)
8	8	March 29	Turing Machines

Assignment	**Due Date (Thursday, D2L Dropbox 11:59 p.m.)**
1	January 25
2	February 1
3	February 8
4	March 1
5	March 8
6	March 15
7	March 22
8	March 29