

Computer Science 1000

Computer Science – An Introduction (Sections 001 & 002)

Winter 2019



Department of Computer Science

Instructor: Todd Wareham
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Note that I **DO NOT** check email in Brightspace (D2L). Please send any emails to my **harold@mun.ca** address, rather than my D2L address. Also, please include **[COMP1000]** in the subject line. Official email correspondence within the university must be via a valid **@mun.ca** email account.

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 Lab Experiences will be posted in D2L/Brightspace).

Evaluation:

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

Assignments	10%
Laboratory quizzes	20%
Midterm test (Monday, February 11, 2019)	25%
Final examination	45%

Format:

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

Lecture Time: Slot 07, M, W, F, 2:00 p.m. - 2:50 p.m.

Lecture Room: EN-2006

Lab Times: Section 001 - Slot 42, Tuesday 9:00 a.m. - 11:50 a.m.

Section 002 - Slot 45, Friday 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 (Tentative):

Dates	Chapter(s)	Topics(s)
Week 1: Jan 4	1, 2	Introduction
Week 2: Jan 7 – Jan 11	2, 3	Algorithms
Week 3: Jan 14 – Jan 18	4	Number Systems and Boolean Logic
Week 4: Jan 21 – Jan 25	4, 5	Circuits and Computer Organization
Week 5: Jan 28 – Feb 1	5	Computer Organization
Week 6: Feb 4 – Feb 8	6	System Software, Review
Week 7: Feb 11 – Feb 15	6	(Midterm Exam – February 11) System Software
Week 8: Feb 18 – Feb 22	MIDTERM BREAK	
Week 9: Feb 25 – Mar 1	9, 10	High-level languages, Python Programming
Week 10: Mar 4 – Mar 8	Notes Online Module	Python Programming
Week 11: Mar 11 – Mar 15	12	Models of Computation
Week 12: Mar 18 – Mar 22	15	Artificial Intelligence
Week 13: Mar 25 – Mar 29	7	Networks, Review
Week 14: Apr 1 – Apr 5		Review
Final Exam Period: Wednesday, Apr 10 to Saturday, Apr 20.		

Lab and Lab Quiz Schedule (Tentative):

Lab #	Topics Covered (Tentative)	Lab Date Quiz Due at 11:50am NT Section 001, Slot 42	Lab Date Quiz Due at 11:50am NT Section 002, Slot 45
0	Introductory	Tuesday, Jan 15 (No Quiz)	Friday, Jan 18 (No Quiz)
1	Algorithms (Searching & Sorting)	Tuesday, Jan 22	Friday, Jan 25
2	Number Systems	Tuesday, Jan 29	Friday, Feb 1
3	Circuits	Tuesday, Feb 5	Friday, Feb 8
4	von Neumann Architecture & Assembly Language	Tuesday, Feb 26	Friday, Mar 1
5	Python (Sequential & Selection)	Tuesday, Mar 5	Friday, Mar 8
6	Python (Selection & Iteration)	Tuesday, Mar 12	Friday, Mar 15
7	Python (Iteration, Functions & Graphics)	Tuesday, Mar 19	Friday, Mar 22
8	Turing Machines	Tuesday, Mar 26	Friday, Mar 29
9	To be announced	Tuesday, Apr 2	Friday, Apr 5

Assignment Schedule (Tentative):

Assignment #	Assignment Due at 11:59pm NT
1	Friday, Jan 25
2	Friday, Feb 1
3	Friday, Feb 8
4	Friday, Mar 1
5	Friday, Mar 8
6	Friday, Mar 15
7	Friday, Mar 22
8	Friday, Mar 29

Important Notes:

1. Memorial University of Newfoundland is committed to supporting inclusive education based on the principles of equity, accessibility and collaboration. Accommodations are provided within the scope of the University Policies for the Accommodations for Students with Disabilities (www.mun.ca/policy/site/policy.php?id=239). Students who may need an academic accommodation are asked to initiate the request with the Glenn Roy Blundon Centre at the earliest opportunity (www.mun.ca/blundon).
2. Labs for Section 001 begin on Tuesday, January 15. Labs for Section 002 begin on Friday, January 18.
3. There will be no lectures or labs from Monday, February 18 to Friday, February 22 (Midterm Break).
4. In the event of university closure on the day of a test, the test will be given in the next class meeting.
5. 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.*****
6. 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. Lab Exercises are not for credit and **do not have to be submitted**. Quizzes (for credit), based primarily on the lab material, will be available to start 30 minutes before the end of the lab period. **Once you start a quiz, you will have only 30 minutes to complete and submit it. Make sure your answers to each question are saved as you answer them.** If you run out of time and the auto-submit feature forces you to submit your quiz, then it will only accept the answers have already been saved. If you notice that a quiz question is not saving properly, please contact one of the lab assistants.
7. If, for special circumstances (such as medical or bereavement) you miss a lab, quiz, assignment or test, notify your instructor as soon as possible, providing any related documentation (if documentation is required). Failure to do this can 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 (**Exemptions from Parts of the Evaluation**) and 6.15 (**Appeal of Decisions**) or consult the Registrar's Office. If your reasons for the missed work are acceptable, then your instructor will provide details of any alternate evaluation scheme.
8. **It is important to note that this course does not have an option for writing a deferred Midterm exam. If, for any reason, you miss the Midterm exam, you should contact your instructor right away, giving the reasons for missing the exam, and requesting that the weight of your Midterm exam be added to the weight of your Final exam. If your request is approved by your instructor, then the weight of your Final exam will be 70%, otherwise your Final exam will be worth 45% and you will receive a 0 for the missed Midterm exam.**
9. Requests for any deferred **Final** exam should be made by filling in the Request for Deferred Exam form and submitting it to **the head of the Department of Computer Science (or their delegate) and to your instructor**. The completed form should be sent to the following email addresses:
cs-chair@mun.ca, compsci@mun.ca, harold@mun.ca

10. **No supplementary exam will be given 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.)
11. Material submitted for grading must be original and independent work. Copying someone else's work or allowing your work to be copied is a serious breach of university regulations and ethics. Any and all copied material will receive the mark of 0%. **If your assignments are quite similar then it can be construed as copying.** (Even if you have done your own work but have consulted a friend as you are doing the assignment then the assignment will turn out to be quite similar.) Please see the University Calendar - General Academic Regulations (Undergraduate) - 6.12 (**Academic Misconduct**).
12. In addition to your instructor, instructional staff are also available to help students with course material through the help centre, via email/phone, or by appointment.

Name	Position	Office Rm #	Phone #	E-mail
Steven Johnstone	Lab Instructor	EN-1063	709-864-4703	MUN: stevenj@mun.ca D2L: stevenj@online.mun.ca
Ingrid Verbree-Barnes	Instructional Assistant	EN-1065	709-864-4307	MUN: ingrid@mun.ca D2L: ingrid@online.mun.ca
Cindy Milley	Instructional Assistant	EN-1064	709-864-2406	MUN: cindy@mun.ca D2L: cindy@online.mun.ca
Stephen Anthony	Instructional Assistant	EN-1062	709-864-4739	MUN: stephen@mun.ca D2L: stephen@online.mun.ca

Please see the *Instructional Staff Contact Information and Schedule* link in the Course Content area for more information.

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