

# Computer Science 1000

## Computer Science – An Introduction (Section 001)

### Winter 2020



Department of Computer Science

**IMPORTANT NOTE:** This version of COMP 1000 is a new version of this course that is no longer a required course for Computer Science Majors or Minors, though it may still be used to satisfy the Computing requirement in other disciplines. Computer Science Majors and Minors should consult with the CS Deputy Head Undergraduate Studies (Dr. Sharene Bungay: [cs-ugradadv@mun.ca](mailto:cs-ugradadv@mun.ca) / EN-2019) or the CS Undergraduate Academic Program Officer (Ms. Cathy Hyde: [cs-ugradadv@mun.ca](mailto:cs-ugradadv@mun.ca) / EN-2025) for the appropriate alternate course selection for their degrees.

**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](mailto: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](mailto:@mun.ca) email account.

#### Credit Restrictions:

The former COMP 1700. Students cannot receive credit for COMP 1000 if completed with, or subsequent to, COMP 1003.

#### Course Objectives:

This course gives students an overview of computer science providing them with a foundation from which they can better appreciate and understand computing in everyday life.

#### Textbook:

*Invitation to Computer Science* (8<sup>th</sup> Edition) by G. M. Schneider and J. L. Gersting, 2019.

*Invitation to Computer Science, Laboratory Manual* (5<sup>th</sup> 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 (Tuesday, February 11, 2020)	25%
Final examination	45%

**Format:**

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

**Lecture Time:** Slot 07, MWF, 2:00 p.m. - 2:50 p.m.**Lecture Room:** TBA**Lab Times:** Slot 42, Tuesday 9:00 a.m. - 11:50 a.m.**Lab Room:** CS-1019

<b>Assignments and course notices will be on Brightspace (D2L); course notes will be available at:</b> <a href="http://www.cs.mun.ca/~harold/Courses/CS1000/">http://www.cs.mun.ca/~harold/Courses/CS1000/</a>
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**Course Schedule (Tentative):**

Dates	Chapter(s)	Topics(s)
Week 1: Jan 6 – Jan 10	1 2	Introduction Algorithms and Programming
Week 2: Jan 13 – Jan 17	Online Module	Algorithms and Programming
Week 3: Jan 20 – Jan 24	2	Algorithms and Programming
Week 4: Jan 27 – Jan 31	4	Number Systems, Circuits
Week 5: Feb 3 – Feb 7	4 5	Circuits Computer Organization
Week 6: Feb 10 – Feb 14	5 6	Review <b>(Midterm Exam – Feb 11)</b> Computer Organization System Software
Week 7: Feb 17 – Feb 21		<b>(Midterm Break)</b>
Week 8: Feb 24 – Feb 28	14	Databases
Week 9: Mar 2 – Mar 6	7	Computer Networks
Week 9: Mar 9 – Mar 13	8	Computer Security
Week 10: Mar 16 – Mar 20	3, 12	Theoretical Computer Science
Week 11: Mar 23 – Mar 27	15	Artificial Intelligence
Week 12: Mar 30 – Apr 3		Wild Blue Yonder, Review
<b>Final Exam Period: Wednesday, Apr 8 to Saturday, Apr 18.</b>		

**Lab and Lab Quiz Schedule (Tentative):**

Lab #	Topics Covered (Tentative)	Lab Date Quiz Due at 11:50am NT Section 001, Slot 42
0	Introductory	Tuesday, Jan 14 (No Quiz)
1	Python (Sequential & Selection)	Tuesday, Jan 21
2	Python (Selection & Iteration)	Tuesday, Feb 4
3	Number Systems	Tuesday, Mar 3
4	Circuits	Tuesday, Mar 17

**Assignment Schedule (Tentative):**

Assignment #	Assignment Due at 11:59pm NT
1	Tuesday, Jan 28
2	Tuesday, Feb 25
3	Tuesday, Mar 10
4	Tuesday, Mar 24

## 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](http://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](http://www.mun.ca/blundon)). **Students using Blundon services for exams are *strongly recommended* to book the exams with the Blundon Centre at least 3 weeks ahead of the exam date to allow for arrangements to be made.**
2. Students are expected to adhere to those principles which constitute proper academic conduct. A student has the responsibility to know which actions, as described under Academic Offences in the University Regulations, could be construed as dishonest or improper. Students found guilty of an academic offence may be subject to a number of penalties commensurate with the offence including reprimand, reduction of grade, probation, suspension or expulsion from the University. For more information regarding this policy, students should refer to the University Regulations for Academic Misconduct (Section 6.12) in the University Calendar.
3. Labs begin on Tuesday, Jan 14.
4. There will be no lectures or labs from Monday, February 17 to Friday, February 21 (Midterm Break).
5. In the event of university closure on the day of a test, the test will be given in the next class/lab meeting.
6. 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.\*\*\***
7. 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.
8. 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.

9. 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.
10. 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**
11. **No supplementary exam will be given for this course.** (See University Calendar - Faculty of Science - 8 **Supplementary Examinations.**)
12. 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 - University Regulations - General Academic Regulations (Undergraduate) - **6.12 Academic Misconduct.**
13. In addition to your instructor, instructional staff are also available to help students with course material.

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

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

14. 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.
15. Please note that Memorial University offers a broad range of supports. More information is available from: <http://www.mun.ca/currentstudents/student/> and <https://munsu.ca/resource-centres/>