



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
COURSE OUTLINE

1. **Course:** CPSC 217: Introduction to Computer Science for Multidisciplinary Studies I

Lecture Sections:

L01, MWF 15:00-15:50, EEEL 161, Nelson Wong, ICT 702, nelson@cpsc.ucalgary.ca

L02, MWF 13:00-13:50, EEEL 161, Nelson Wong, ICT 702, nelson@cpsc.ucalgary.ca

Office Hours: MW 16:00-17:00

Course Website: D2L

Computer Science Department Office, ICT 602, 220-6015, cpssc@cpsc.ucalgary.ca

2. **Prerequisites:** None.

(<http://www.ucalgary.ca/pubs/calendar/current/computer-science.html#3620>)

3. **Grading:** The University policy on grading and related matters is described in sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Assignments	30%
Midterm Exam	30%
(Wednesday November 2 nd , 2016 at 19:00 in ST 140 and ST 148)	
Final Exam	40%

This course **will** have a Registrar's Scheduled Final Exam.

Special Regulations affecting Final grade: None.

4. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar. Section 3.6. It is the student's responsibility to familiarize themselves with these regulations. See also Section E.6 of the University calendar.

5. **Scheduled Out-of-Class Activities:** REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME ACTIVITY. If you have a clash with this out-of-class activity, please inform your instructor as soon as possible so that alternative arrangements can be made.

6. **Course Materials:**

Starting Out with Python Workbook, Ben Stephenson, *Springer* (Recommended)

Starting Out with Python, Tony Gaddis, *Addison Wesley* (Recommended)

Online Course Components:

Lecture slides and support materials will be on D2L.

7. **Examination Policy:** Closed book. No aids of any kind are permitted. Students should also read the Calendar, Section G, on examinations.

8. **Approved Mandatory and Optional Course Supplemental Fees:** None.

9. **Writing across the Curriculum Statement:** In this course, the quality of the student's writing in the weighted components of the course will be a factor in the evaluation of these components. See also Section E.2 of the University Calendar.

10. **Human Studies Statement:** Students will be expected to participate as subjects or participants in projects. See also Section E.5 of the University Calendar.

11. **OTHER IMPORTANT INFORMATION FOR STUDENTS:**

- a) **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offense that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under Section K, Student Misconduct to inform yourself of definitions, processes and penalties.
- b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on assembly points which can be found in each classroom and building.
- c) **Student Accommodations:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf. Students needing an Accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of Computer Science.
- d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 403-220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>
- f) **Student Union Information:** VP Academic (403) 220-3911 suvpaca@ucalgary.ca SU Faculty Rep (403) 220-3913 science1@su.ucalgary.ca, science2@su.ucalgary.ca and science3@su.ucalgary.ca, Student Ombuds Office: (403) 220-6420 ombuds@ucalgary.ca, <http://ucalgary.ca/provost/students/ombuds>
- g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend your cell phone should be turned off unless instructed otherwise. All communications with other individuals via laptop computers, cell phones or other devices connectable to the internet in not allowed during class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- h) **U.S.R.I.:** At the University of Calgary feedback provided by students through the Universal Student ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference – please participate in USRI surveys.

Department Approval _____ Date _____

Associate Dean's Approval for out of regular class-time activity: _____ Date: _____

Associate Dean's Approval for Alternate final examination arrangements: _____ Date: _____

A signed copy of this document is kept on file in the Computer Science main Office ICT 602

CPSC 217 Percentage to Letter Grade Conversion Table

A+	95-100
A	90-94
A-	85-89
B+	80-84
B	75-79
B-	70-74
C+	65-69
C	60-64
C-	55-59
D+	50-54
D	40-49
F	0-39

CPSC 217 Syllabus

Tentative Topics Covered:

Topic 1: Introduction to Computer Science
Topic 2: Introduction to Programming
Topic 3: Information and Data
Topic 4: Decisions
Topic 5: Repetition
Topic 6: Functions
Topic 7: Lists, Dictionaries and Strings
Topic 8: Files and Exceptions
Topic 9: Recursion (if time permits)

Learning Outcomes:

By the end of the course: students will:

- Use existing modules to make use of code developed by others, including modules for the creation of graphical programs.
- Develop solutions to small scale problems using procedural problem solving techniques.
- Create and debug programs that make effective use of a variety of different programming concepts including complex expressions, conditionals, while and for loops, functions, lists, dictionaries, strings, and files.
- Compute the outcome of a program involving a variety of different programming concepts including complex expressions, conditionals, while and for loops, functions, lists, dictionaries, strings, files and exceptions.
- Summarize and/or apply a selection of non-programming topics such as the history of computing, disciplines within the broader field of computer science, encoding techniques, challenges associated with floating point numbers and introductory database concepts, or others.