



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

1. **Course:** CPSC 231, Introduction to Computer Science for Computer Science Majors I -- Fall 2017

Lecture 01: (TR, 09:30-10:45 in ENA101)

Instructor Name	Email	Phone	Office	Hours
Maryam Majedi	mmajedi@ucalgary.ca	(403)210-9540	ICT 555	TR 11 - 12 or by appointment
<i>Lecture 02:</i> (TR, 15:30-16:45 in ENE239)				
Catalin Dohotaru	dcatalin@ucalgary.ca	TBA	ICT 548	Tu 13:00 - 14:00 and by appointment
<i>Lecture 03:</i> (TR, 14:00-15:15 in ENE241)				
Jeffrey Edwin Boyd	boyd@cpsc.ucalgary.ca	220 6015	ICT 711	TR 1100-1200

Course Site:

D2L: CPSC 231 L01-(Fall 2017)-Introduction to Computer Science for Computer Science Majors I

Department of Computer Science: ICT 602, 403 220-6015, cpsc@cpsc.ucalgary.ca

2. **Prerequisites:**

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

Credit for both Computer Science 231 and any of 215, 217, 235 or Computer Engineering 339 will not be allowed.
 Computer Science 101 is strongly recommended as preparation for this course. See the statements at the beginning of the Computer Science entry.

3. **Grading:**

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Component(s)	Weighting %
Exercises	10
Assignments (5)	25
Midterm (25-Oct-2017, 1700-1900h)	25
Final	40

Each of the above components will be given a letter grade using the official University grading system. The final grade will be calculated using the grade point equivalents weighted by the percentages given above and then converted to a final letter grade using the official University grade point equivalents.

Bear in mind that a grade of D+ or below will result if students do not achieve a grade of C- or better on the final exam.

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 in [Section 3.6](#). It is the student's responsibility to familiarize himself/herself with these regulations. See also [Section E.3](#) of the University Calendar

5. **Scheduled out-of-class activities:**

The following out of class activities are scheduled for this course:

Common Midterm, scheduled for 120 min on Wednesday October 25 2017 at 5:00 pm ST 140 and ST 148

6. **Course Materials:**
7. **Examination Policy:**

No aids are allowed on tests or examinations

Students should also read the Calendar, [Section G](#), on Examinations.
8. **Approved Mandatory and Optional Course Supplemental Fees:**

There are no mandatory or optional course supplemental fees for this course
9. **Writing across the Curriculum Statement:**

See Section E.2 of the University Calendar.
10. **Human studies statement:**

Students will not participate as subjects or researchers in human studies.
11. **OTHER IMPORTANT INFORMATION FOR STUDENTS:**
 - a. **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence 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](#).
 - c. **Academic Accommodation Policy:** 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 [procedure-for-accomodations-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 Undergraduate Affairs of the Department of Computer Science, Nathaly Verwaal by email nmverwaa@ucalgary.ca or phone 403-220-8485.
 - d. **Safewalk:** Campus Security will escort individuals day or night (www.ucalgary.ca/security/safewalk/). Call [403-220-5333](tel: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 (FOIPPA). 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 www.ucalgary.ca/legalservices/foip.
 - f. **Student Union Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: suvcaca@ucalgary.ca. SU Faculty Rep. Phone: [403-220-3913](tel:403-220-3913) Email: sciencerep@su.ucalgary.ca; Student Ombudsman, Email: suvcaca@ucalgary.ca
 - 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. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in 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. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these Surveys.
 - i. **SU Wellness Center:** The Students Union Wellness Centre provides health and wellness support for students including information and counselling on physical health, mental health and nutrition. For more information, see www.ucalgary.ca/wellnesscentre or call [403-210-9355](tel:403-210-9355).

Department Approval:

Electronically Approved

Date: 2017-09-04 14:08

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

Electronically Approved

Date: 2017-09-05 10:42

Course Outcomes

1. Read small procedural Python programs, identify any syntax any logic errors, identify type of data stored in specific variables and predict result of running code. This includes code that contains assignment, conditional and looping statements; arithmetic and boolean expressions; functions and recursive functions; input statements from the keyboard, mouse and files and output statements to the screen and files; creates new instances of classes and invokes methods on these instances and code that uses data structures such as lists and strings.
2. Write and run small Python procedural programs that contains assignment, conditional and looping statements; arithmetic and boolean expressions; functions and recursive functions; input statements from the keyboard, mouse and files and output statements to the screen and files; creates new instances of classes and invokes methods on these instances and code that uses data structures such as lists and strings.
3. Develop debugging skills to systematically identify and fix syntax and logic errors in procedural code written by self and others.
4. Create basic classes in Python that contain a constructor, instance variables and methods.
5. Design and implement a small application with a graphical user interface implemented using procedural Python code.