



## COURSE OUTLINE

### 1. **Course:** CPSC 233, Introduction to Computer Science for Computer Science Majors II - Winter 2024

#### Coordinator(s)

Name	Email	Phone	Office	Hours
Dr. Jonathan Hudson	jwhudson@ucalgary.ca	403 220-2044	ICT 712	

#### Section(s)

Lecture 01 : MWF 11:00 - 11:50 in KNB 132

Instructor	Email	Phone	Office	Hours
Steve Sutcliffe	steve.sutcliffe@ucalgary.ca	403 220-7745	ICT 708	By Appointment

Lecture 02 : MWF 14:00 - 14:50 - Online

Instructor	Email	Phone	Office	Hours
Parisa Daeijavad	TBA	TBA	TBA	TBA

Lecture 03 : MWF 15:00 - 15:50 in CHC 105

Instructor	Email	Phone	Office	Hours
Steve Sutcliffe	steve.sutcliffe@ucalgary.ca	403 220-7745	ICT 708	By Appointment

This is a coordinated course. The lecturer will deliver the topics the coordinator expects before the deadlines for the assessed components but can deliver them as they best see fit.

Lecturers are responsible for answering questions about lecture content and answering questions about how that knowledge can be used to complete assessment components.

Teaching assistants will be responsible for answering questions about tutorial content and individual questions about the assignment/project grading they complete.

The coordinator and head TA will manage questions about assessment deadlines/requirements, participation/quiz grading, accommodations, and extension requests, and they will manage student partner groups.

The most efficient way to contact and interact with the instructor is during lecture and office hours.

The most efficient way to contact and interact with the TA is during tutorial.

The most efficient way to contact and interact with the coordinator is via email and other course communication platforms. Meetings in-person will be arranged on as needed basis.

Email turnaround is generally 1 business day.

Assignment submission will consist of the submission of final files in the D2L Dropbox as well as a link to a csgit.ucalgary.ca repository accessible to your assigned TA with evidence of regular assignment progress via multiple regular commits.

Assignments will require a substantial amount of programming in Java.

To account for any necessary transition to remote learning for the current semester, courses with in-person lectures, labs, or tutorials may be shifted to remote delivery for a certain period of time. In addition, adjustments may be made to the modality and format of assessments and deadlines, as well as to other course components and/or requirements, so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff).

#### In Person Delivery Details:

Lecture and tutorial material will be delivered in-person. There should be no expectation of recorded material, but individual instructors could choose to stream their lectures and/or record them. Tutorials will include demonstrations of project milestones for assessment in-person, which are required to receive demonstration project grades.

#### Course Site:

D2L: CPSC 233 W24

**Note:** Students must use their U of C account for all course correspondence.

**Equity Diversity & Inclusion:**

The University of Calgary is committed to creating an equitable, diverse and inclusive campus, and condemns harm and discrimination of any form. We value all persons regardless of their race, gender, ethnicity, age, LGBTQIA2S+ identity and expression, disability, religion, spirituality, and socioeconomic status. The Faculty of Science strives to extend these values in every aspect of our courses, research, and teachings to better promote academic excellence and foster belonging for all.

**2. Requisites:**

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

**Prerequisite(s):**

Computer Science 231 and admission to Computer Science, Bioinformatics, or Natural Science with a primary concentration in Computer Science.

**Antirequisite(s):**

Credit for Computer Science 233 and any of 219, 235, Electrical Engineering 497 or Computer Engineering 493 will not be allowed.

**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:

Course Component	Weight	Due Date (duration for exams)	Modality for exams	Location for exams
Quizzes <sup>1</sup>	10%	Ongoing		
Participations <sup>2</sup>	10%	Ongoing		
Project <sup>3</sup>	50%	Ongoing		
Assignment 1 <sup>4</sup>	10%	Feb 09 2024		
Assignment 2 <sup>5</sup>	10%	Mar 08 2024		
Assignment 3 <sup>6</sup>	10%	Mar 29 2024		

<sup>1</sup> There will be 6 quiz collection dates (top 5 of 6 used). These timed assessments will be available on D2L on the 6 Fridays indicated in the posted course schedule. Each assessment will be available for 24 hours. You will have 15-30min (depending on the quiz) to complete and submit it. Planned dates Jan 19, Feb 2, Feb 16, Mar 8, Mar 22, Apr 5

<sup>2</sup> There will be 6 participation collection dates (top 5 of 6 used). These are not timed assessments but have due dates in D2L, like assignments, 6 times during the semester. Planned dates Jan 12, Jan 26, Feb 9, Mar 1, Mar 15, Mar 29

<sup>3</sup> 30% - 3 demos (in tutorial, in-person) Planned dates Feb 26-Mar 1, Mar 18-22, Apr 8-12; 15% - final submission (in the D2L dropbox) Planned date Apr 15; 5% - reflection (in the D2L dropbox) Planned date Apr 15.

<sup>4</sup> Submitted via the D2L dropbox.

<sup>5</sup> Submitted via the D2L dropbox.

<sup>6</sup> Submitted via the D2L dropbox.

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
<b>Minimum % Required</b>	95 %	90 %	85 %	80%	75%	70 %	65 %	60%	55%	50 %	45 %

Extension policy: All students will have 5 total days during the semester that can be used for any of the 3 assignments. Students can use these days all on one assignment, or spread across all 3. Each 24 hour period late after an assignment deadline counts as one full day regardless of how many hours the assignment was late within that period. For example, deadlines are generally Fridays 11:59pm local time; that means an assignment submitted any time Saturday before 11:59pm local time will be considered as 1 day late and will count against the student's 5 total days. As long as a student still has days left to use, their assignment will be graded without penalty. If a student has no more days left or their submission exceeds the days they have remaining, then they will receive a 0 grade for a late assignment. A student who uses up their late days on earlier assignments will not have them available for later assignments. TAs will indicate the students late day usage in grading feedback.

The University of Calgary offers a [flexible grade option](#), Credit Granted (CG) to support student's breadth of learning and student

wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: <https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade>

#### 4. **Missed Components Of Term Work:**

In the event that a student legitimately fails to submit any online or in-person assessment on time (e.g. due to illness, domestic affliction, etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date, or possible exemption and reweighing of components. Absences not reported within 48 hours will not be accommodated. Students may be asked to provide supporting documentation ([Section M.1](#)) for an excused absence, See [FAQ](#).

If an excused absence is approved, options for how the missed assessment is dealt with is at the discretion of the coordinator or course instructor. Some options such as an exemption and pro-rating among the components of the course may not be a viable option based on the design of this course.

#### 5. **Scheduled Out-of-Class Activities:**

There are no scheduled out of class activities for this course.

#### 6. **Course Materials:**

Lecture slides and other support material will be posted in D2L.

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC [ELearning](#) online website.

#### 7. **Examination Policy:**

Quizzes (only exams) are individual assessments and completed through D2L.

All assignments are to be **completed individually**.

Assignment submission will consist of the submission of final files in the D2L dropbox as well as a link to a [csgit.ucalgary.ca](http://csgit.ucalgary.ca) repository, accessible to your assigned TA, with evidence of regular assignment progress via multiple regular commits.

The instructor will use an automated code similarity detection system.

All cases of plagiarism and any other academic misconduct will be investigated and reported to the Faculty of Science.

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:**

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also Section [E.2](#) of the University Calendar.

#### 10. **Human Studies Statement:**

Students will not participate as subjects or researchers in human studies.

See also [Section E.5](#) of the University Calendar.

#### 11. **Reappraisal Of Grades:**

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

- a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work [form](#) to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [1.1](#) and [1.2](#) of the University Calendar
- b. **Final Exam:** The student shall submit the request to Enrolment Services. See [Section 1.3](#) of the University Calendar.

12. **Other Important Information For Students:**

- a. **Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).
- b. **SU Wellness Services:** For more information, see their [website](#) or call [403-210-9355](#).
- c. **Sexual Violence:** The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email ([svsa@ucalgary.ca](mailto:svsa@ucalgary.ca)) or phone at [403-220-2208](#). The complete University of Calgary policy on sexual violence can be viewed [here](#).
- d. **Student Ombuds Office:** A safe place for all students of the University of Calgary to discuss student related issues, interpersonal conflict, academic and non-academic concerns, and many other problems.
- e. **Student Union Information:** [SU contact](#), Email your SU Science Reps: [science1@su.ucalgary.ca](mailto:science1@su.ucalgary.ca), [science2@su.ucalgary.ca](mailto:science2@su.ucalgary.ca), [science3@su.ucalgary.ca](mailto:science3@su.ucalgary.ca).

f. **Academic Accommodation Policy:**

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.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, by filling out the [Request for Academic Accommodation Form](#) and sending it to by email preferably 10 business days before the due date of an assessment or scheduled absence.

- g. **Misconduct:** Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional [Code of Conduct](#) and promote academic integrity in upholding the University of Calgary's reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor's consent; submitting or presenting work as if it were the student's own work; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; borrowing experimental values from others without the instructor's approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

[Student Handbook on Academic Integrity](#)  
[Student Academic Misconduct Policy](#) and [Procedure](#)  
[Faculty of Science Academic Misconduct Process](#)  
[Research Integrity Policy](#)

Additional information is available on the [Student Success Centre Academic Integrity page](#)

- h. **Copyright of Course Materials:** All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the

terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

- i. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). 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 [Legal Services](#) website.
- j. **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.

**Course Outcomes:**

- o Describe the difference between procedural and object-oriented approaches to program decomposition.
- o Apply the principles of object-oriented programming to design and document, using a standard modelling language, solutions to small-scale computational problems.
- o Read, trace the execution, and determine the outcome of small software systems developed using object-oriented constructs including classes, objects, encapsulation, inheritance, and interfaces.
- o Create and debug small software systems that make effective use of constructs including classes, objects, encapsulation, inheritance, and interfaces.
- o Develop a client that makes use of external object-oriented libraries or application programming interfaces.
- o Become familiar with a version control system and integrated development environment.

Electronically Approved - Dec 21 2023 06:00

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**Department Approval**