COURSE OUTLINE

1. Course: CPSC 233, Introduction to Computer Science for Computer Science Majors II - Winter 2020

   Lecture 01: MWF 10:00 - 10:50 in ST 141
   Instructor: Dr. Sohaib Bajwa
   Email: sohaib.bajwa1@ucalgary.ca
   Phone: 403 220-6015
   Office: ICT 708
   Hours: MW 11:00 to 12:00 or by appointment

   Lecture 02: MWF 11:00 - 11:50 in ST 141
   Instructor: Leanne Wu
   Email: lewu@ucalgary.ca
   Phone: 403 210-9483
   Office: ICT 734
   Hours: M 14:00 to 15:00, W 12:00 to 13:00 or by appointment

   Course Site:
   D2L: CPSC 233 L01 and L02 - (Winter 2020)-Introduction to Computer Science for Computer Science Majors II

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

2. Requisites:

   See section 3.5.C in the Faculty of Science section of the online Calendar.

   Prerequisite(s):
   Computer Science 231.

   Antirequisite(s):
   Credit for both 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:

<table>
<thead>
<tr>
<th>Component(s)</th>
<th>Weighting %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Assignments</td>
<td>10</td>
</tr>
<tr>
<td>Individual Quizzes</td>
<td>20</td>
</tr>
<tr>
<td>Individual Coding Challenges</td>
<td>30</td>
</tr>
<tr>
<td>Team Quizzes</td>
<td>10</td>
</tr>
<tr>
<td>Team Project</td>
<td>30</td>
</tr>
</tbody>
</table>

   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 Coding Challenges component grade is below C-.

4. Missed Components Of Term Work:

   In the event that a student misses the midterm or any course work due to illness, supporting documentation, such as a medical note or a statutory declaration will be required (see Section M.1; for more information regarding the use of statutory declaration/medical notes, see FAQ). Absences must be reported within 48 hrs.

   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 themselves with these regulations. See also Section E.3 of the University Calendar.

5. Scheduled Out-of-Class Activities:

   There are no scheduled out of class activities for this course.
6. **Course Materials:**

   Recommended Textbook(s):


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:**

   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 10 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 immediately submit the Reappraisal of Graded Term work form to the department in which the course is offered. The department will arrange for a re-assessment of the work if, and only if, the student has sufficient academic grounds. See sections L1 and L2 of the University Calendar.

    b. **Final Exam:** The student shall submit the request to Enrolment Services. See Section I.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 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.

    c. **Sexual Violence:** The University of Calgary is committed to fostering a safe, productive learning environment. The Sexual Violence Policy (https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf) is a fundamental element in creating and sustaining a safer campus environment for all community members. We understand that sexual violence can undermine students' academic success and we encourage students who have experienced some form of sexual misconduct to talk to someone about their experience, so they can get the support they need. 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) or phone at 403-220-2208.

    d. **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
Course Outcomes:

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

**Department Approval**

**Associate Dean’s Approval for alternate final examination arrangements**