



CAMOSUN COLLEGE
Trades and Technology
Computer Science

COMP 132
Programming Using Java
Winter 2023

COURSE OUTLINE

The calendar description is available on the web @ <http://camosun.ca/learn/calendar/current/web/comp.html>

Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor	Shohreh Hadian	
(b) Office hours	(online)M 12 – 12:50 PM (In Person) W, TH 12:30 – 1:20 PM	
(c) Location	Ewing 302	
(d) Phone	250-370-3971	Alternative:
(e) E-mail	shadian@camosun.ca	
(f) Website	D2L	

2. Intended Learning Outcomes

To introduce the student to programming and the design and implementation of high-quality object-oriented software using the Java programming language. This course introduces the student to programming in an imperative, object-oriented language.

Students will be introduced to:

- Software development concepts such as: variables; logical and relational Operators; control structures such as selection and repetition; functions and parameters.
- Object oriented programming design: built-in and user-defined objects; Inheritance; Exceptions.
- Approaches as how to produce quality programs and Problem solving via top-down and object-oriented methods.

3. Required Materials

- (a) Texts: Introduction to Java Programming and Data Structures, Y. Daniel Liang, 11th edition
- (b) Software: NetBeans IDE 11 or higher

4. Course Content and Schedule

Comp 132 Tentative Winter 2023 Schedule					
Date	Lectures	Topic	Text Book Chapters	Quiz Midterm	Lab Activities
Week 1 Jan 9 - Jan 13	L1	Introduction to the Course			No Lab
	L2	Motivation for Learning Java, history	1.1 - 1.6	Q0	
Week 2 Jan 16 - Jan 20	L1	language structure, variables	1.7 - 1.10		Lab1 - Intro To Netbeans
	L2	assignments, operators	2.1 - 2.11	Q1 - general	
Week 3 Jan 23 - Jan 27	L1	Selection (if, else, switch)	3.1 - 3.5		Lab2 - Variables and Operators
	L2	logical operators	3.10, 3.13-3.15	Q2 - data/Variable	
Week 4 Jan 30 - Feb 3	L1	repetition (for, while, do-while)	5.1 - 5.5		Lab3 - Conditional statements
	L2	more operators, Nested Loops	5.6	Q3 - selection	
Week 5 Feb 6 - Feb 10	L1	arrays - 1D	7.1-7.2, 7.6-7.7		Lab4 - Repetitions
	L2	arrays - multi-dimension	8.1-8.4	Q4 - loops	
Week 6 Feb 13 - Feb 17	L1	methods	6.1 - 6.6	Q5- arrays + methods	Lab5 - Arrays + Methods
	L2		6.8 - 6.9		
Week 7 Feb 20 - Feb 24	Family Day (Monday Feb 20) Reading Break				
Week 8 Feb 27 - Mar 3	L1	objects and classes,	9.1 - 9.5	Midterm	Lab7 - Objects and Classes
	L2		9.7-9.9, 9.13-9.14		
Week 9 Mar 6 - Mar 10	L1	modifiers, encapsulation	10.1 - 10.4	Q7- class	
	L2		10.8 - 10.11		
Week 10 Mar 13 - Mar 17	L1	class abstraction, thinking in objects	11.1 - 11.2	Q8- method with reference	Exercise - GUI Build: Using Objects
	L2		11.3 - 11.5		
Week 11 Mar 20 - Mar 24	L1	inheritance	11.6 - 11.8	Q9- inheritance	
	L2				
Week 12 Mar 27 - Mar 31	L1	polymrphism, dynamic binding	11.10,	Q10- Misc	Lab 8 - Inheritance
	L2		11.14		
Week 13 Apr 3 - Apr 7	L1	The Object's equals method	13.5 (Interface)		Exercise - Interface and EventHandlers
	L2		15.1-15.3(Events)		
Week 14 Apr 10 - Apr 14	Monday				
	Tuesday	Review			
Examination period - April 17 - 25					

5. Basis of Student Assessment (Weighting)

Midterm test	20%
10 quizzes (1% each)	10%
Final exam (mandatory)	40%
Lab work	25%
Attendance and Participation	5%

(a) Labs

Labs are intended to give practical experience in the material covered in the lectures. The lab sessions provide an opportunity for you to discuss with the instructor your progress or problems in solving the lab assignments. You should have made some attempts or progress in the assignment before coming to lab session. Labs must be submitted prior to their due date.

Must achieve a minimum average of 55% on the labs. Late assignments and/or labs are subjected to a 5% penalty, except by the instructor's prior written permission or in the presence of a dire and documented short-term medical or family emergency.

Students throughout the semester must keep copies of all submitted labs. Labs must be submitted in the form of electronic by the due date.

(b) Exams

Must achieve a minimum average 55% on the Final exam to pass the course.

(c) Attendance

Students should attend the demo part of the lab sessions since materials covered and discussed will enhance or impede student's learning.

6. Grading System

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|-------------------------------------|---------------------------------|
| <input checked="" type="checkbox"/> | Standard Grading System (GPA) |
| <input type="checkbox"/> | Competency Based Grading System |

7. Recommended Materials to Assist Students to Succeed Throughout the Course

Reference texts:

- Introduction to Java Programming and Data Structures, Y. Daniel Liang, 11th edition
- Class notes and reference material provided through D2L

8. College Supports, Services and Policies.



Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @

<http://camosun.ca/about/mental-health/emergency.html> or

<http://camosun.ca/services/sexual-violence/get-support.html#urgent>

Department Policies:

Grade review: You have 7 days after marks are posted to review with your instructor.

Academic Dishonesty:

1st violation: minus the weight of the deliverable and a note on your departmental file.

2nd violation: F in the course

3rd violation: Student Conduct [Policy](#) E-2.5 is applied

Missed Examinations/Quizzes: If a student misses a quiz or an exam, a mark of zero will be assigned unless there are extenuating circumstances. In such cases, the proportion of grade assigned to the missed quiz or exam will be added to the proportion assigned to the final exam. The final exam will be held during exam week. NO consideration will be given to any student wishing to write the exam at any other time than that assigned.

Electronic Devices: The school's policy regarding electronic devices is that any student who has a cell phone or other unauthorized electronic device (ie. ipad, laptop, playbook, etc.) on their person or around their desk during an exam will be guilty of cheating and will a grade of "F" for the course.

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

A. GRADING SYSTEMS <http://www.camosun.bc.ca/policies/policies.php>

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://www.camosun.bc.ca/policies/E-1.5.pdf> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete</i> : A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress</i> : A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal</i> : A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.