



CAMOSUN COLLEGE  
School  
Department

COMP132 – Programming Using Java  
Winter 2018  
Section 1, 2 A/B

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/s:	<i>Shohreh Hadian</i>		
(b) Lecture hours	<b>Section 1 A/B</b> M, Tu 12:30 PM - 1:20 PM, Fisher 212 Th 12:30 PM - 1:20 PM, Fisher 206 <b>Section 2 A/B</b> M 2:30 PM - 3:20 PM WT 101 Tu 2:30 PM - 3:20 PM Fisher 206 W 2:30 PM - 3:20 PM Ewing 201		
Lab hours	<b>Section 1A:</b> Thursday 3:30 PM - 5:20PM, Ewing 112 <b>Section 1B:</b> Monday 3:30 PM - 5:20PM, Ewing 110 <b>Section 2A:</b> Tuesday 3:30 PM - 5:20PM, Ewing 200 <b>Section 2B:</b> Wednesday 3:30 PM - 5:20PM, Ewing 200		
Office hours	TBA and by appointment		
(c) Location	Ewing 302		
(d) Phone	250-370-3971	<b>Alternative:</b>	
(e) E-mail	shadian@camosun.bc.ca		
f) Website	Use D2L course site!		

2. Course Objectives

- 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.

### 3. Intended Learning Outcomes

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.

### 4. Required Materials

**Textbook:** Java for students - 6<sup>th</sup> edition, by Douglas Bell, Mike Parr, Prentice Hall  
**Software:** NetBeans IDE 8.0.2

### 5. 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 during class on their due date. Late labs will be downgraded by 5% per day late on the first late lab and 10% on the second late lab. Third and subsequent late labs will not be accepted. Students throughout the semester must keep copies of all submitted labs. Labs must be submitted in the form of both electronic and hard copy by the due date.

### 6. Basis of Student Assessment (Weighting)

Participation	5%
Midterm tests 1 & 2 (15% each)	30%
Final exam (mandatory)	40%
Lab work	25%

### 7. Grading System

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

### 8. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

#### LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Student Services or the College web site at <http://www.camosun.bc.ca>

#### STUDENT CONDUCT POLICY

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.

<http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf>

## 9. Course Content and Schedule

### Tentative Class Schedule (subject to change)

Week	Textbook reference (chapter)	Topics	Labs
1 (Jan 8)	1, 2, 4	Introduction to Computers, Programs, and Java Elementary Programming, Writing a simple Program, Identifiers	Lab1 - Creating, Compiling, and Executing a Java Program using NetBeans
2 (Jan 15)	4, 5, 7	Identifiers, Variables, operators	Lab 2 – Variables and Operators
3 (Jan 22)	8	Selections (If, Switch)	Lab 3 – Conditional statements
4 (Jan 29)	8,11	Repetitions (Loops), Functions and Methods	Lab 4 - Repetitions
5 (Feb 5)	13	Methods, Arrays, Multidimensional arrays, The scope of variables , Overloading methods	Lab5 - Methods
6 (Feb 12)	-	Family Day, Reading Break	
7 (Feb 19)	14	Midterm1, Objects and Classes, Visibility modifiers, The <i>this</i> reference Characters, Strings,	Lab6 - Arrays
8 (Feb 26)	6, 9	Object-Oriented Thinking, Class Abstraction and Encapsulation, Thinking in objects, Class relationships	
9 (Mar 5)	15	Inheritance	Lab 7 – Objects and Classes
10 (Mar 12)	-	Review, Midterm 2	
11(Mar 19)	15	Polymorphism, Superclasses and Subclasses Overriding Methods, Overriding vs. Overloading	Lab 8 – Intro to GUI
12 (Mar 26)	10	Graphics, Panes, UI Controls, (Interface, Events) and Shapes, Property Binding	Lab9
13 (Apr 2)	3, *	Introduction to Exception Handling	
14 (Apr 9)	16	Text I/O, The File class, File Input and Output ( if time permits)	
Apr 16 – Apr 27		Exam Period	

## A. GRADING SYSTEMS <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>

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://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/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.