



**CAMOSUN COLLEGE**  
**Trades and Technology**  
**Computer Science**

**COMP139 – Applied Computer Programming Using Java**  
**Winter - 2020**

**COURSE OUTLINE**

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

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*Ω 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.*

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**1. Instructor Information**

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|------------------|---------------------------------|--------------------|
| (a) Instructor   | Jadwiga Downarowicz             | _____              |
| (b) Office hours | Monday: 12:30 - 1:20            | _____              |
| (c) Location     | E308                            | _____              |
| (d) Phone        | 250 370-3985                    | Alternative: _____ |
| (e) E-mail       | downarow@camosun.bc.ca          | _____              |
| (f) Website      | D2L Camosun College course site | _____              |

**2. Intended Learning Outcomes**

- To introduce students to:
- Problem Solving Techniques
  - Recursion
  - Algorithm analysis
  - Searching, sorting
  - Object-oriented techniques
  - Generics
  - Inheritance
  - Interfaces
  - Polymorphism
  - Data Structures (linear, linked, stacks, queues, trees, etc.)
  - Abstract Data Types
  - Collections
  - Exceptions

**3. Required Materials**

- (a) Java Software Structures: Designing and using Data Structures by J. Lewis and J. Chase. Addison Wesley. 4th edition
- (b) NetBeans IDE

**4. Course Content and Schedule**

### Tentative Class Schedule (Subject to change)

Week #	Textbook reference (chapter)	Topics	Labs
1. Jan 6	1	Introduction, Analysis of Algorithms	
2. Jan 13	2	Analysis of Algorithms	Lab 1
3. Jan 20	3, Appendix A & B	Collections, Stacks, Inheritance, Exceptions	Lab 2
4. Jan 27	4	Linked Structures, Stacks	Lab 2
5. Feb 3	5	Queues, Review	Lab 3
6. Feb 10	5,6	Midterm 1, Lists	Lab 3
7. Feb 17		Family Day, Reading Break	
8. Feb 24	6, 7	Lists, Iterator	Lab 4
9. Mar 2	8	Recursion	Lab 4
10. Mar 9	9	Sorting and Searching	Lab 5
11. Mar 16		Review, Midterm 2	
12. Mar 23	10	Trees	Lab 5
13. Mar 30	11,12	Binary Search Trees, Heaps, Priority Queues	Lab 6
14. Apr. 6		Review	

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

Midterm tests 1 & 2 (15% each)	30%
Final exam (mandatory)	45%
Lab work	25%

(a) Lab Assignments:

Labs are intended to give practical experience in the material covered in the lectures. The lab sessions provide an opportunity for the student to discuss with the instructor 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 on their due date. Labs must be submitted electronically to D2L Dropbox and a hard copy (printed) must be submitted in person to the instructor by the due date. Due dates will be posted on D2L. First late lab will be downgraded by 5% per day late. Second and subsequent late labs will not be accepted. Students throughout the semester must keep copies of all submitted labs.

(b) Exams

Student must achieve a minimum average of 55% on the Final exam to pass the course.  
No leaving during any examination unless an accommodation is in place.

## 6. Grading System

- Standard Grading System (GPA)
- Competency Based Grading System

## 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 them with your instructor.

### Academic Dishonesty:

- 1<sup>st</sup> violation: minus the weight of the deliverable and a note on your departmental file.
- 2<sup>nd</sup> violation: F in the course
- 3<sup>rd</sup> 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 receive 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://camosun.ca/about/policies/index.html>

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/index.html> 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.