



**COMP212 – Introduction to Computer Science**  
**Winter 2020**

**COURSE OUTLINE**

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

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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**

(a) Instructor	Andy Dawson Reid	_____
(b) Office hours	Wednesdays 12:30pm – 1:30pm, Fridays 9:00am – 10:00am	_____
(c) Location	Ewing 310	_____
(d) Phone	_____	Alternative : _____
(e) E-mail	ReidA1@Camosun.bc.ca	_____
(f) Website	D2L COMP 212 course site	_____

**2. Intended Learning Outcomes**

On completing this course, the student will be able to:

- Describe the process of operation of an abstract Von Neumann computer
- Understand the role and process of operating systems
- Distinguish between compilers and interpreters
- Apply the concept of abstraction
- Understand data abstraction and its application
- Understand some outstanding problems in computer science
- List and categorize the major areas of computer science
- Explain issues involving the role of computers in contemporary society.

*Details for each learning outcome available on the course website.*

### 3. Required Materials

Invitation to Computer Science, by G. Michael Schneider and Judith Gersting - ISBN 978-1-337-56191-4 - *(optional)*

### 4. Course Content and Schedule

#### Lectures:

Wednesdays – 10:00am – 11:20am – Fisher Building Room 306

Fridays – 10:00am – 11:20am – Young Building Room 317

#### Labs:

COMP 212-001A – Wednesdays – 11:30am – 12:20pm – Ewing Building Room 200

COMP 212-001B – Fridays – 11:30am – 12:20pm – Ewing Building Room 110

#### Provisional Schedule:

Week	Commencing	Class Topic	Labs/Assignments
1	Jan 6th	Introduction to Computer Science	
2	Jan 13th	Algorithm discovery and design	Lab 0
3	Jan 20th	Efficiency of algorithms	Lab 1 – Assignment 1
4	Jan 27th	Binary, Boolean logic and gates	Lab 2
5	Feb 3rd	Von Neumann architecture	Lab 3 – Assignment 2
6	Feb 10th	Operating systems	Lab 4
7	Feb 17th	Reading week	
8	Feb 24th	Networking	
9	Mar 2nd	Information security	Lab 5 – Assignment 3
10	Mar 9th	Languages	Lab 6
11	Mar 16th	Compilers	Lab 7 – Assignment 4
12	Mar 23rd	E-commerce and databases	Lab 8
13	Mar 30th	Revision	Lab 9 – Assignment 5
14	Apr 6th		

## 5. Basis of Student Assessment (Weighting)

(a) Homework Assignments

Homework Assignments	25%
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(b) Lab Assignments

Lab Assignments	20%
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Late assignments 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.

(c) Exams

Midterm Exams x 3	50%
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Must achieve a minimum average of 55% in the Midterm Exams.

No leaving and return during any examination unless an accommodation in place.

(d) Other

Participation/Attendance	5%
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## 6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

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

N/A

## 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:

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 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.