



**CAMOSUN COLLEGE**  
**Trades & Technology**  
**Computer Science**

**ICS 214**  
**Programming from C to C++**  
**Winter 2018**

**COURSE OUTLINE**

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The calendar description is available on the web @ [camosun.ca/learn/calendar/current/web/comp.html](http://camosun.ca/learn/calendar/current/web/comp.html)

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	Dale Shpak	
(b) Office hours	TBA	
(c) Location	TEC 253	
(d) Phone	250-370-4457	Alternative: _____
(e) E-mail	shpak@camosun.ca	
(f) Website	www.cs.camosun.bc.ca/comp166	

**2. Intended Learning Outcomes**

Upon completion of the course, students will be able to:

1. prepare an algorithm for solving a problem;
2. use functions and parameters appropriately and correctly;
3. define, reference and modify one-dimensional arrays correctly;
4. access, define and modify character string arrays correctly;
5. read, write and calculate with integer and real data items;
6. use functions from selected libraries;
7. use effectively the computer environment for program development;
8. write program documentation appropriately;
9. write a 200-line program of some logical complexity involving input and output, and using a disciplined style; and
10. test and debug code.

**3. Required Materials**

(a) Suggested Texts

*For the C language:*

R. Thareja, "Introduction to C Programming", Oxford, 2<sup>nd</sup> Ed., 2015.

*For the C++ language:*

B. Stroustrup, "The C++ Programming Language", Addison-Wesley, 4<sup>th</sup> Ed., 2013. OR

B. Stroustrup, "Programming: Principles and Practice Using C++", Addison-Wesley, 2<sup>nd</sup> Ed., 2014.

(b) Other

#### 4. Course Content and Schedule

(Can include: Class hours, Lab hours, Out of Class Requirements and/or Dates for quizzes, exams, lecture, labs, seminars, practicums, etc.)

Lectures: Tues 11:30-12:50 TEC 174

Weds 08:30-9:50 TEC 181

Labs: X01A Tues 13:00-14:50 TEC 151

X01B Weds 12:30-14:20 TEC 151

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

(Should be directly linked to learning outcomes.)

(a) Laboratory Assignments

30 %

(b) Exams

Midterm 25 %

Final 45 %

(c) Other (e.g. Project, Attendance, Group Work)

N/A

#### 6. Grading System

(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

Standard Grading System (GPA)

Competency Based Grading System

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

Additional resources on the course home page: [www.cs.camosun.bc.ca/ics214](http://www.cs.camosun.bc.ca/ics214)

### 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>

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.