

CAMOSUN COLLEGE

School of Trades and Technology Information and Computer Systems

ICS 114 Algorithms and Programming

Fall 2020

COURSE OUTLINE

The calendar des	cription is available on the w	http://camosun.ca/learn/calendar/current/web/ics.htm				
	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 I	nformation					
(a) Instructor	Benjamin Leather					
(b) Office hours	By request					
(c) Location						
(d) Phone 250-	885-6966	Alternative	:			
(e) E-mail	LeatherB@camosun.bc.ca	-				
(f) Website						

2. Intended Learning Outcomes

- Design and code a medium-complexity (non-database, non-web form) C# program;
- Understand the language syntax rules for the C# programming language;
- Write statements that call methods and to write their own class methods;
- Test, troubleshoot, and debug issues associated with C# programming;
- Describe how to declare and perform compile-time initialization of array elements;
- Define and code object-oriented classes, methods, and objects;
- Create, open, close, read, and write files;
- Understand the language syntax rules for the C# programming language;
- Think critically to evaluate information, solving problems, and making decisions as they relate to the use of software tools for software development; and
- Apply accepted standards to ensure security, privacy, and integrity of software while recognizing the ethical, legal, and social implications of software development.

3. Required Materials

None. All material provided through D2L.

4. Course Content and Schedule

	lecture	lab	due
Week 1	Chapter 1		
Sept 8-11	Introduction to Computer and Application		
	Development		
Week 2	Chapter 2	Lab 1	
Sept 14-18	Data Types and Expressions	Use Visual Studio 2019 to	
		build applications	
Week 3	Chapter 3		
Sept 21-25			
Week 4	Chapter 4	Lab 3	
Sept 28-Oct 2	Creating your own classes	Methods and Behaviours	
	Chapter 5		
	Making Decisions		
Week 5	Chapter 6	Lab 4	
Oct 5-9	Repeating Instructions	Designing Classes	
Week 6	Chapter 7	Lab 5	
Oct 12-16	Arrays	Making Decisions	
	Quizzes / Review / Practice		
Week 7	Chapter 8	Lab 6	
Oct 19-23	Advanced Collections	Repeating Instructions	
	Midterm (Oct 21st)		
Week 8	Chapter 9	Lab 7	
Oct 26-30	Introduction to Windows Programming	Arrays	
Week 9	Chapter 10	Lab 8	
Nov 2-6	Programming Based on Events	Arrays and Collections	
Week 10	Chapter 11	Lab 9	
Nov 9-13	Advanced Object Oriented Programming	Windows Forms	
	Features		
Week 11	Chapter 12	Lab 10	
Nov 16-20	Debugging and Handling Exceptions	Events	
Week 12	Chapter 13		
Nov 23-27	Working with Files		
Week 13	Review		
Nov 30-Dec 4			
Week 14	Exam		
Dec 7-11			

5. Basis of Student Assessment (Weighting)

(Should be directly linked to learning outcomes.)

Lab Assignments: 30%
Midterm Exam: 20%
Quizzes: 10%
Final Practical Exam: 20%
Final Written Exam: 20%

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.)

X Standard Grading System (GPA)

	0 , 0 , 0 ,
	Competency Based Grading System
	Competency Basea Crading Cystem

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

Home computer with broadband internet access.

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

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	Α		8
80-84	A-		7
77-79	B+		6
73-76	В		5
70-72	B-		4
65-69	C+		3
60-64	С		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	
СОМ	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	Incomplete: 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	In progress: 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	Compulsory Withdrawal: 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.