CAMOSUN COLLEGE
School
Department

ICS 125
Software Engineering Process)
Winter 2018

COURSE OUTLINE

The calendar description is available on the web @   D2L

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.*

1. Instructor Information

(a) Instructor	Mr. Stephen Lang	
(b) Office hours	Tuesday 1:30-2:30	
(c) Location	Tec 252	
(d) Phone	250-370-4454	**Alternative:**
(e) E-mail	langs@camosun.ca	
(f) Website	http://hal.cs.camosun.bc.ca/~langs	

2. Intended Learning Outcomes

Explain the different practices that are key components of various process models for software development;

· Apply the basic principles of software project management in a team environment;

· Compare a variety of strategies to test simple programs;

· Identify methods that will lead to the creation of software architecture that achieves at least a minimum level of reliability, dependability and security;

· 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

(a) Texts

Recommended: Beginning Software Engineering by Rod Stephens

(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.)

Pre-requisites: ICS 114 or equivalent

Section 1 Lecture: Thursday 10:30-12:00 TECH 181 and Friday 10:30-12:00 CC 122
      Lab A: Friday 1:00-3:00 Tech 147, Lab B: Tuesday 10:30-12:30 Tech 151

Section 2 Lecture: Monday 11:00-12:30 Tech 147/148 and Tuesday 9:00-10:30 CBA 212
      Lab A: Friday 8:30-10:30 Tech 273, Lab B: Thursday 8:30-10:30 Tech 257

Lecture topics include: software development methodologies; object-oriented design; unit testing; code coverage techniques; software architecture; and, source code control.

Lab assignments will involve programming in Java using an integrated development environment (IDE), debugger, Javadocs, JUnit, UML, exception handling, JDBC, Swing, and Git.

5. Basis of Student Assessment (Weighting)
(Should be directly linked to learning outcomes.)

(a) Assignments
40% Lab assignments

(b) Quizzes

10% Quizzes
(c)   Exams

30% Final exam
20% Midterm exam
(d) Other (e.g. Project, Attendance, Group Work)

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)

| | Competency Based Grading System

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

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	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	*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.