CAMOSUN COLLEGE
Trades and Technology
Computer Science

ICS 224
Mobile App Development
Winter 2019

COURSE OUTLINE

The calendar description is available on the web @	camosun.ca/learn/calendar/current/web/ics.html

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**	Michael Horie	
(b)	**Office hours**	By appointment	
(c)	**Location**	TEC 246	
(d)	**Phone**	Please email	**Alternative:**
(e)	**E-mail**	horiem@camosun.bc.ca	
(f)	**Website**	D2L	

2. Intended Learning Outcomes

At the end of this course, students will be able to:

- Describe technology and business trends impacting mobile applications (Week 7)
- Describe and apply the different types of application models/architectures used to develop mobile software applications (Weeks 1-5, 7-14)
- Identify the limitations and challenges working in a mobile and wireless environment (Week 7)
- Design, implement, test, and deploy mobile applications using an appropriate development environment (Weeks 1-5, 7-14)
- Apply accepted standards to ensure security, privacy, and integrity of data while recognizing the ethical, legal, and social implications of wireless computing (Weeks 1-5, 7-14)

Week numbers relate to the schedule listed in Course Content and Schedule below.

3. Required Materials

(a) Texts
The Swift Programming Language (Apple)
iOS Human Interface Guidelines (Apple)
App Store Review Guidelines (Apple)
App Distribution Guide (Apple)

(b) Other
Lab manual

4. Course Content and Schedule

Week 01:
   Introduction to Xcode and Swift (Reading: The Swift Programming Language)
Week 02
   Introduction to Xcode and Swift Cont'd (Reading: The Swift Programming Language)
Week 03:
   Introduction to Xcode and Swift Cont'd (Reading: The Swift Programming Language)
Week 04:
   Introduction to Xcode and Swift Cont'd (Reading: The Swift Programming Language)
Week 05:
   Introduction to Xcode and Swift Cont'd (Reading: The Swift Programming Language)
   Additional Networking, Privacy, and Security Topics
Week 06:
   Reading Break
Week 07:
   Introduction to iOS Frameworks
   Human Interface Guidelines (Reading: iOS Human Interface Guidelines)
   App Store Review Guidelines (Reading: App Store Review Guidelines)
   App Distribution Guidelines (Reading: App Distribution Guide)
   Mobile Application Trends and Limitations
Week 08:
   Introduction to ARKit
Week 09:
   Introduction to Games
Week 10:
   Introduction to Navigation
Week 11:
   Introduction to Notifications
Week 12:
   Introduction to Messaging
   Introduction to Contacts
Week 13:
   Introduction to Pasteboards and Preferences

Introduction to Extensions
Week 14:
 Review

Final exam date to be announced by the College
Quizzes almost every week, with each quiz being scheduled at the beginning of class
This schedule is subject to change

5. Basis of Student Assessment (Weighting)

See Department Policy section for additional details

(a) Assignments

N/A

(b) Labs

15%

Must complete all labs.

Late labs are subject to a 100% 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) Quizzes

30%

One lowest quiz mark will be dropped
Must achieve a minimum average of 55% on quizzes.

(d) Exams

50%

Must achieve a minimum average 55% on the Final exam to pass the course.

No leaving during any examination unless an accommodation is in place.

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

5%

Lab attendance and participation (specifically, arriving on time with the required materials)

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:

1st violation: Minus the weight of the deliverable and a note on your departmental file.

2nd violation: F in the course

3rd 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://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	*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.