

# COURSE SYLLABUS



COURSE TITLE:	ICS 224 - Mobile App Development
CLASS SECTION:	All
TERM:	Winter 2024
COURSE CREDITS:	3
DELIVERY METHOD(S):	On-campus

Camosun College campuses are located on the traditional territories of the Lək̓ʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.  
Learn more about Camosun's [Territorial Acknowledgement](#).

For COVID-19 information please visit <https://legacy.camosun.ca/covid19/index.html>.

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*Camosun College requires mandatory attendance for the first class of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.*

## INSTRUCTOR DETAILS

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NAME:	Michael Horie
EMAIL:	horiem@camosun.bc.ca
OFFICE:	TEC 246
HOURS:	By appointment

*As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.*

## CALENDAR DESCRIPTION

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*Learn the principles of mobile application design and development. Working in teams, you will use a variety of techniques, tools, and platforms to implement mobile applications. Platform development will be determined at the time of course delivery.*

PREREQUISITE(S):	C in ICS 211, C in ICS 228 or COMP 276
CO-REQUISITE(S):	N/A
EXCLUSION(S):	N/A

## COURSE LEARNING OUTCOMES / OBJECTIVES

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- Describe technology and business trends impacting mobile applications
- Describe and apply the different types of application models/architectures used to develop mobile software applications
- Identify the limitations and challenges working in a mobile and wireless environment
- Design, implement, test, and deploy mobile applications using an appropriate development environment

- Apply accepted standards to ensure security, privacy, and integrity of data while recognizing the ethical, legal, and social implications of wireless computing

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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Required:

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

## COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

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*The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.*

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
1	Xcode and Swift (Reading: The Swift Programming Language)	Start of Labs
2	Xcode and Swift Cont'd (Reading: The Swift Programming Language)	Lab 1 due
3	Xcode and Swift Cont'd (Reading: The Swift Programming Language)	Lab 2 due
4	Xcode and Swift Cont'd (Reading: The Swift Programming Language)	Lab 3 due
5	Xcode and Swift Cont'd (Reading: The Swift Programming Language)	Lab 4 due
6	Midterm Exam (Feb 14)	Lab 5 due
7	Reading Break	No labs
8	Xcode and Swift Cont'd (Reading: The Swift Programming Language)	Lab 6 due
9	Xcode and Swift Cont'd (Reading: The Swift Programming Language)	Lab 7
10	Introduction to iOS Frameworks Introduction to ARKit Introduction to Games	Lab 7 due
11	Introduction to Asynchronous Programming	Lab 8 due
12	Midterm Exam (Mar 27)	No labs
13	Introduction to Human Interface Guidelines (Reading: iOS Human Interface Guidelines) Introduction to App Store Review Guidelines (Reading: Introduction to App Store Review Guidelines) Introduction to App Distribution Guidelines (Reading: App Distribution Guide) Introduction to Mobile Application Trends and Limitations	Lab 9 due

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
14	Review	Lab 10 due
TBA by Camosun	Final exam	

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html) ( <http://camosun.ca/services/accessible-learning/exams.html> )

## EVALUATION OF LEARNING

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DESCRIPTION		WEIGHTING
Labs	Must complete all labs. Marks are generally deducted for arriving late to a lab, failing to bring required materials to the lab, working on something other than ICS 224 labs, or leaving before the lab is complete. <b><u>Late work results in a 0</u></b>	10%
Pop Quizzes	A missed quiz results in a 0 for that quiz, but the lowest 2 marks are dropped	10%
Midterm Exams	<b><u>A missed midterm exam results in a 0</u></b>	40%
Final Exam	Must pass the final exam. <b><u>A missed final exam results in an F in the course</u></b>	40%
	TOTAL	100%

If you are going to miss a deadline (lab, quiz, midterm, final) because of an [illness, emergency, or other extenuating circumstance](https://camosun.ca/sites/default/files/2022-11/e-1.17.1.pdf) (see <https://camosun.ca/sites/default/files/2022-11/e-1.17.1.pdf> ), email me right away, before the deadline. Documentation may be required.

If you have a concern about a grade you have received for an evaluation, please come and see me within 7 days of the mark being posted on D2L. Refer to the [Grade Review and Appeals Policy](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) ( <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> ) for more information.

## COURSE GUIDELINES & EXPECTATIONS

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All source code must be submitted via D2L; emailed submissions are not accepted. Be sure to double-check your D2L submission; submissions that cannot be opened will not be graded.

## SCHOOL OR DEPARTMENTAL INFORMATION

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### **Academic Integrity Violations:**

1<sup>st</sup> violation: A 0 on the deliverable, and a note in your departmental file

2<sup>nd</sup> violation: An F in the course

3<sup>rd</sup> violation: See the [Academic Integrity Policy](https://camosun.ca/sites/default/files/2021-09/e-1.13.pdf) ( <https://camosun.ca/sites/default/files/2021-09/e-1.13.pdf> ) and [Policy-Informed Practice: A Guide to Academic Misconduct and How to Address It](https://camosun.ca/sites/default/files/2021-05/e-1.13.5.pdf), especially Category 3 ( <https://camosun.ca/sites/default/files/2021-05/e-1.13.5.pdf> )

**Electronic Devices:** Following School policy, students who have a cell phone or other unauthorized electronic device (e.g., tablet, laptop) on their person or around their desk during an exam will be deemed guilty of cheating and will receive an F in the course.

## STUDENT RESPONSIBILITY

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Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

## SUPPORTS AND SERVICES FOR STUDENTS

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Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

*If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.*

### **Academic Accommodations for Students with Disabilities**

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (physical, depression, learning, etc.). If you have a disability, the Centre for Accessible Learning (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started: <http://camosun.ca/services/accessible-learning/>

### **Academic Integrity**

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### **Academic Progress**

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

### **Course Withdrawals Policy**

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### **Grading Policy**

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### **Grade Review and Appeals**

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### **Mandatory Attendance for First Class Meeting of Each Course**

Camosun College requires mandatory attendance for the first class of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space will be offered to the next waitlisted student. For more information, please see the "Attendance" section under "Registration" (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### **Medical / Compassionate Withdrawals**

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit

<http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### **Sexual Violence and Misconduct**

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun's Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student's right to choose what is right for them. For more information see Camosun's Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and <http://camosun.ca/sexual-violence>. To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-370-3841

### **Student Misconduct (Non-Academic)**

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College's Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

**Changes to this Syllabus:** Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students notice of the changes.