

COURSE SYLLABUS



COURSE TITLE: ICS 224 - Mobile App Development

CLASS SECTION: All

TERM: Winter 2022

COURSE CREDITS: 3

DELIVERY METHOD(S): In class

Camosun College campuses are located on the traditional territories of the Lək̓ʷəŋən and W̓SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Learn more about Camosun's [Territorial Acknowledgement](#).

The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafe BC, and the B.C. Government to ensure the health and wellbeing of students and employees, Camosun College is determined to keep you safe. For details on current precautions, please follow this link:

<http://camosun.ca/covid19/faq/covid-fags-students.html>. However, if you're at all uncomfortable being on campus, please share your concerns with your instructor. If needed, alternatives will be discussed.

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

NAME: Michael Horie

EMAIL: horiem@camosun.bc.ca

OFFICE: TEC 246 or online

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

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

- 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

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

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor. **Note that most weeks, there will be a quiz. Also, in weeks where labs are due, they must be completed and handed in by the end of the designated lab time.**

| WEEK or DATE RANGE | ACTIVITY or TOPIC | OTHER NOTES |
|--------------------|---|----------------------|
| 1 | Xcode and Swift (Reading: The Swift Programming Language) | No labs |
| 2 | Xcode and Swift Cont'd (Reading: The Swift Programming Language) | Labs start this week |
| 3 | Xcode and Swift Cont'd (Reading: The Swift Programming Language) | Lab 1 due |
| 4 | Xcode and Swift Cont'd (Reading: The Swift Programming Language) | Lab 2 due |
| 5 | Xcode and Swift Cont'd (Reading: The Swift Programming Language) | Lab 3 due |
| 6 | Xcode and Swift Cont'd (Reading: The Swift Programming Language) | Lab 4 due |
| 7 | Reading Break | No labs |
| 8 | Introduction to: <ul style="list-style-type: none">• 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 | Lab 5 due |
| 9 | Introduction to ARKit | Lab 6 due |

| WEEK or DATE RANGE | ACTIVITY or TOPIC | OTHER NOTES |
|--------------------|--|-------------|
| 10 | Introduction to Games | Lab 7 due |
| 11 | Introduction to Navigation | Lab 8 due |
| 12 | Introduction to Notifications Introduction to Messaging Introduction to Contacts | Lab 9 due |
| 13 | Introduction to Pasteboards and Preferences Introduction to Extensions | Lab 10 due |
| 14 | Review | No labs |
| 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 noticed is required. Deadlines can be reviewed on the CAL exams page at <https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams>.

EVALUATION OF LEARNING

| DESCRIPTION | | WEIGHTING |
|----------------------------------|---|-------------------|
| Lab Work | Must complete all labs. Late labs are subject to a 100% penalty, <u>unless you are feeling unwell and have emailed your instructor prior to the lab, to arrange an alternative date. Do NOT come to campus if you are feeling unwell.</u> | 15% |
| Lab Attendance and Participation | Includes arriving on time with the required materials and working on the current lab for the duration of the lab. <u>If you are feeling unwell, do NOT come to campus, but email your instructor prior to the lab to receive an exemption for the affected lab.</u> | 5% |
| Quizzes | One lowest quiz mark will be dropped. A minimum average of 55% must be achieved. <u>A missed quiz results in a 0, unless you are feeling unwell and have emailed your instructor prior to the quiz, to arrange an alternative date. Do NOT come to campus if you are feeling unwell.</u> | 50% |
| Final Exam | A minimum average of 55% must be achieved. <u>A missed final exam results in a 0, unless you are feeling unwell and have emailed your instructor prior to the final, to arrange an alternative date. Do NOT come to campus if you are feeling unwell.</u> | 30% |
| | | TOTAL 100% |

If you have a concern about a grade you have received for an evaluation, please come and see me within 7 days of the grade being posted. Refer to the [Grade Review and Appeals Policy E-1.14](#) for more information.

COURSE GUIDELINES & EXPECTATIONS

Lab time is reserved for working on ICS 224 labs.

SCHOOL OR DEPARTMENTAL INFORMATION

Grade review: You have 7 days after marks are posted to review them 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 Misconduct Policy E-2.5](#) is applied

Electronic Devices: A student who has a cell phone or other unauthorized electronic device (e.g., iPad, laptop, playbook) on their person or around their desk during an exam will be guilty of cheating and will receive a grade of "F" in the course

STUDENT RESPONSIBILITY

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

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 | http://camosun.ca/advising |
| Accessible Learning | http://camosun.ca/accessible-learning |
| Counselling | http://camosun.ca/counselling |
| Career Services | http://camosun.ca/coop |
| Financial Aid and Awards | http://camosun.ca/financialaid |
| Help Centres (Math/English/Science) | http://camosun.ca/help-centres |
| Indigenous Student Support | http://camosun.ca/indigenous |
| International Student Support | http://camosun.ca/international/ |
| Learning Skills | http://camosun.ca/learningskills |
| Library | http://camosun.ca/services/library/ |
| Office of Student Support | http://camosun.ca/oss |

| Support Service | Website |
|--------------------|---|
| Ombudsperson | http://camosun.ca/ombuds |
| Registration | http://camosun.ca/registration |
| Technology Support | http://camosun.ca/its |
| Writing Centre | http://camosun.ca/writing-centre |

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.

COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

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 https://camosun.ca/sites/default/files/2021-05/e-1.1_0.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 Policies and Procedures”

(<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 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 clear and timely notice of the changes.