



Mobile Computing

Course Information

Course Number: COSC3P97

Term/Year/Duration: Fall 2024

Instructor Information

Instructor Name: Earl Foxwell

Office: MCD413

Contact: efoxwell@brocku.ca

Times and Locations

Lectures: Mondays, 5:30–8:30pm, MCD205

All lectures are delivered synchronously, in-person.

*A Student may make or share an audio or video recording of a lecture, presentation, or lesson, **only with the permission of the instructor.***

Course Calendar Description

Overview of mobile applications, technologies and communication. Common paradigms in mobile computing. Application frameworks and application development. Interaction styles for user interface.

Learning Outcomes:

- Developing mobile applications
- Understanding of Android activities
- Understanding of mobile interfaces and modes of operation
- Ability to connect mobile apps to other apps/services
- Communication of ideas, both live and documented

Course Communications

All communication is delivered via Brightspace announcement and/or email. Students are expected to check both routinely, as anything posted to either may be deemed 'read'. This includes announcements in the event of class cancellations and inclement weather; but also postings, amendments to assessments, etc. Further requirements on assignments may also be communicated directly in lecture.

When emailing your instructor, include the name of the course in the **Subject** line. All correspondence must be from your student (Brock) email address.

Please note: your instructor is a *human being*. Emails written, 'polished', or otherwise generated by AI are incredibly unprofessional, but also might be caught by spam filters or otherwise missed. Also: trying to trick a human being into interacting with a machine because they aren't worth *your* time doesn't send a very positive sentiment.

Assessment Components

| Assessment Component | Grade Weight |
|----------------------|--------------|
| Assignment 1 | 10% |
| Assignment 2 | 15% |
| Group Project | 50% |
| Proposal | 5% |
| Documentation | 10% |
| Implementation | 35% |
| Presentation | 20% |
| Participation | 5% |
| Total | 100% |

Additional requirements

In order to qualify for a credit in the course, the following additional conditions must be met:

- This course includes cooperative work for the project; you must not be removed from your group
- Your group must submit a proposal and project, and must make a presentation

Additionally, though attendance is not taken for lectures, it *is* taken for the presentations. Attendance for said presentations is mandatory: participation primarily relates to being attentive, respectful attendees to the presentations of your peers. Disruption, fiddling with cell phones, etc. can all lead to deductions, as will simply skipping them. To confirm: the 'participation' grade is only worth 5%, but **can be negative**.

Please note that these requirements are all core components of the course's pedagogical goals, and thus are irreplaceable.

In the event of any form of penalty imposed by the Dean's office for misconduct, offenders will be ineligible for any curving, shifting, or other academic consideration (as that would countermand prescribed penalties).

Late Submission Policy

Late submissions are **not accepted**, with *no* exceptions.

Note: **do not email submissions** to your instructor. They will not be accepted, and unsolicited attachments may lead to your email address becoming blocked. There will *never* be any circumstances in which an exception should be made; you will *not* receive a reply restating this policy.

If any work must be missed, prompt communication is mandatory for any accommodation to be considered. i.e. when a student knows an assessment or assignment may be missed, the instructor must be notified *immediately* upon the student learning of the issue.

If e.g. any illness should occur immediately before a due date, submit whatever you have to demonstrate the amount you've completed thus far. If for some reason this is not possible, upload it to your OneDrive/Sharepoint (under your Brock account credentials), set the upload to share with your instructor, and email a link to your instructor. Failure to demonstrate work completed to that point will result in the assumption of having forgotten the assignment.

See Medical Exemption Policy and the medical health certificate at the [Registrar's Website \(Forms\)](#). Your instructor will decide what, if anything, to do *after* receiving the form, subject to the same points as above. If accepted, accommodations may include alternate submission arrangements, omitting a piece of work, shifting its weight onto some other work, or assigning an alternate work.

Common issues, such as leaving insufficient time to upload files, slow internet, etc. are easily anticipated, and avoided just as easily; and **not** grounds for exceptions. Accordingly, no such requests will receive a reply.

Important dates

The most recent listing of Important Dates for all durations is at <https://brocku.ca/important-dates/all/>

First day of classes: 4 September

Last day of lectures: 3 December

Last day of exams: 19 December

Deadline for withdrawal without academic penalty: 5 November

National Truth and Reconciliation Day: **30 September**

Fall break week: 14–18 October

Academic Policies

Academic Integrity

Statement for undergraduate courses

Academic misconduct is a serious offence. The principle of academic integrity, particularly of doing one's own work, documenting properly (including use of quotation marks, appropriate paraphrasing and referencing/citation), collaborating appropriately, and avoiding misrepresentation, is a core principle in university study. Students should consult Section VII, "Academic Misconduct", in the "Academic Regulations and University Policies" entry in the [Undergraduate Calendar](#) to view a fuller description of prohibited actions, and the procedures and penalties. Information on what constitutes academic integrity is available at [Brock University Academic Integrity Website](#).

Plagiarism software:

This course may use phrase-matching software, or additional tools and scripts to assist with detection of academic misconduct. There is **no** opt-out, nor alternative provided.

Penalties for Academic Misconduct in the Faculty of Mathematics and Science

The following are standard penalties imposed in academic misconduct cases in FMS. Please be aware that the Associate Dean, Undergraduate Programs, may assign different penalties than those listed here, depending on the details of individual cases. ***Requests for special academic consideration, such as exceptions to academic regulations, will not be considered while academic integrity cases are ongoing.***

Penalties for misconduct in course work, including mid-term tests

First offence: Zero grade on assignment, additional penalty of 100% of the weight of the assignment to be subtracted from the final grade, mandatory completion of the AZLS Academic Integrity workshop

Second offence: Zero grade on assignment, 4-month suspension

Third offence: Zero grade in course, 1-year suspension, permanent removal from major program.

Fourth offence: Permanent suspension / debarment.

Penalties for misconduct in final exams:

First offence: Zero grade in course

Second offence: Zero grade in course, 4-month suspension

Third: Zero grade in course, 1-year suspension, permanent removal from major program,

Fourth offence: Permanent suspension / debarment.

Intellectual Property Notice

All slides, presentations, handouts, tests, exams, and other course materials created by the instructor in this course are the intellectual property of the instructor. A student who publicly posts or sells an instructor's work, without the instructor's express consent, may be charged with misconduct under Brock's Academic Integrity Policy and/or Code of Conduct, and may also face adverse legal consequences for infringement of intellectual property rights.

Accommodations

The University is committed to fostering an inclusive and supportive environment for all students and will adhere to the Human Rights principles that ensure respect for dignity, individualized accommodation, inclusion and full participation. The University provides a wide range of resources to assist students, as follows:

- a) If you require academic accommodation because of a disability or an ongoing health or mental health condition, please contact Student Accessibility Services at askSAS@brocku.ca or 905 688 5550 ext. 3240.

In the interest of removing roadblocks before they're encountered, and for the sake of equal dignity for all, this course follows the principles of Universal Design for Learning. This means, where possible, the SAS-prescribed UDL alternatives will typically be favoured rather than the usual, more generalized individual accommodations. All students with accommodations are encouraged to discuss their requirements to ensure they're being met, but this must occur *before* issues arise.

b) Medical Self-Declaration Forms (brief absence up to 72 hours)

In the case of a short-term medical circumstance, if a student wishes to seek an academic consideration, please use the [Medical Self-Declaration Form](#). The request is to be made in good faith by the student requesting the academic consideration due to a short-term condition that impacts their academic activities (e.g., participation in academic classes, delay in assignments, etc.).

The period of this short-term medical condition for academic consideration must fall within a 72-hour (3 day) period. The form must be submitted to the instructor either during your brief absence or if you are too unwell, within 24 hours of the end of your 3 day brief absence.

Medical Verification Form (extended duration)

In cases where a student requests academic consideration due to a medical circumstance that exceeds 72 hours (three days) and will impact their academic activities (e.g., participation in academic classes, delay in assignments, etc.), or in the case of a final exam deferral, the [medical verification form](#) must be signed by the student and the health professional as per process set out in the [Faculty Handbook III:9.4.1](#).

- c) If you are experiencing mental health concerns, contact the Student Wellness and Accessibility Centre. *Good2Talk* is a service specifically for post-secondary students, available 24/7, 365 days a year, and provides anonymous assistance: [Good 2 Talk](#) or call **1-866-925-5454**. For information on wellness, coping and resiliency, visit: [Brock University \(Mental Health\)](#)
- d) If you require academic accommodation on religious grounds, you should make a formal, written request to your instructor(s) for alternative dates and/or means of satisfying requirements. Such requests should be made during the first two weeks of any given academic term, or as soon as possible after a need for accommodation is known to exist.
- e) If you have been affected by sexual violence, the Human Rights & Equity Office offers support, information, reasonable accommodations, and resources through the Sexual Violence Support & Education Coordinator. For information on sexual violence, visit [Brock's Sexual Assault and Harassment Policy](#) or contact the Sexual Violence Support & Response Coordinator at humanrights@brocku.ca or 905 688 5550 ext. 4387.
- f) If you have experienced discrimination or harassment on any of the above grounds, including racial, gender or other forms of discrimination, contact the Human Rights and Equity Office at humanrights@brocku.ca.

List of topics

1. Introduction: Mobile Computing, The Android Platform
2. Android Interface Basics
3. Layouts and Containers
4. Resources & Media
5. (National Day for Truth and Reconciliation — Sept. 30)
6. Selection

7. Dialogs & Fragments
8. Menus, Databases
9. Services, Launching Activities
10. Messaging, Content Providers
11. Project assistance/widgets
12. Presentations