

CIS*4030 Mobile Computing
0.50 Credits – Undergraduate – Winter 2020
School of Computer Science – University of Guelph

Lectures:

Tuesdays & Thursdays, 1430-1550
Crop Science 117

Office: Reynolds 2205

Office Hours: by appointment

Instructor Details:

David Flatla (dflatla@uoguelph.ca)

Teaching Assistant Details:

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Course Website:

<https://courselink.uoguelph.ca/d2l/home/611872>

The course website will be used to post any materials, announcements, and assignment specifications and grades. You are responsible for checking this site regularly. Assignments will be submitted via the course website.

Textbook:

<https://commonsware.com/Android/> (latest version is 8.13 [August 2018])

<https://commonsware.com/Android/4-2-free> (latest free version is 7.0 [December 2015])

Course Prerequisites: CIS*2030, CIS*2750, CIS*3110

Course Description: This course introduces students to mobile computing and mobile application development. It examines mobile technology, application development, user interaction, data storage, and software tools.

Course Objectives: The purpose of this course is to help you become familiar with the technical skills and experience necessary to be competitive for an entry-level Android Developer job. As such, you will become a subject-matter expert in (at least) one Android topic, as well as gain a robust topical knowledge of the breadth of Android development. You will demonstrate your expertise by: 1) helping guide your peers to understand your particular specialism, and 2) completing 20 short exercises covering the breadth of Android development. To further extend and demonstrate your expertise, you will also complete a substantial Android development project (in groups), with the specific goal of releasing a stable minimal viable product (MVP) on the Google Play Store by the end of the course.

Grading Scheme:

Peer Teaching Activity = 40%

20 Android Exercises @ 1% each = 20% total

Android Group Project = 40%

Your final grade will be the weighted average of your grades for each of the above components.

Assessment:

Peer Teaching Activities will be completed in class between 14 January and 13 February (inclusive – 10 classes). For your activity, you will have ~40 minutes to teach and demonstrate your particular topic (2 per class). You will also set an exercise for your peers (the Android Exercise for your topic), which will be released by the instructional staff via the course webpage. Activities will be done in groups of 3-4 (70 students / (10 classes x 2 activities per class) = 3.5 students per activity).

Android Exercises will be released on the course website as I receive them. I recommend that you work on these as they come out. They must all be completed by 28 February. You will complete these Exercises individually.

Android Group Project will have three milestones:

Milestone 1 (10% - presentation of your idea) will be due in-class 27 February

Milestone 2 (10% - initial design and coding) will be due in-class 12 March

Milestone 3 (20% - public demo of MVP) will be due in-class 02 April

I will release the group project specification before the end of January. You will do the project in groups of ~5 (14 groups). You don't have to work with the same people as for the Peer Teaching Activity.

Course Schedule:

Week (Mon)	Tuesday Class	Thursday Class
00 (06 Jan)	Course introduction	Topic generation & selection
01 (13 Jan)	2 Peer Teaching Activities	2 Peer Teaching Activities
02 (20 Jan)	2 Peer Teaching Activities	2 Peer Teaching Activities
03 (27 Jan)	2 Peer Teaching Activities	2 Peer Teaching Activities
04 (03 Feb)	2 Peer Teaching Activities	2 Peer Teaching Activities
05 (10 Feb)	2 Peer Teaching Activities	2 Peer Teaching Activities
06 (17 Feb)	<i>Winter Break</i>	<i>Winter Break</i>
07 (24 Feb)	--	Milestone 1
08 (02 Mar)	--	--
09 (09 Mar)	--	Milestone 2
10 (16 Mar)	--	--
11 (23 Mar)	--	--
12 (30 Mar)	--	Milestone 3

Additional Notes:

- First day of class is Tuesday, 07 January.
- Peer Teaching Activities will take place from 14 January – 13 February (inclusive).
- Winter Break (no lectures or labs) is 17 February – 21 February.
- After Winter Break, we will only meet together formally on 27 February (Project Milestone 1), 12 March (Project Milestone 2), and 02 April (Project Milestone 3). Please use the class time to work on your projects.
- The final day of classes is 03 April.
- There is no midterm exam for this course.
- There is no final exam for this course.

E-mail Communication:

As per university regulations, all students are required to check their @uoguelph.ca e-mail account regularly: e-mail is the official route of communication between the University and its students.

You **must** use the course email (under TA information above) for all course-related correspondence. We all get a lot of email, so please state the course title and your name in any correspondence you send. If you send a question that is answerable via Google, the course text book, your peers, or any other resource besides us, then we will redirect you instead of answering your question (and that wastes both of our time). Please be respectful in all email correspondence. We promise to do the same.

When You Cannot Meet a Course Requirement:

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, id#, and e-mail contact. See the undergraduate calendar for information on regulations and procedures for Academic Consideration.

Drop Date

Courses that are one semester long must be dropped by the last day of classes. The regulations and procedures for Dropping Courses are available in the Undergraduate Calendar.

Copies of out-of-class assignments

Keep reliable back-up copies of any work that you do in the course; you may be asked to resubmit your work at any time.

Accessibility:

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required, however, interim accommodations may be possible while that process is underway. Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

More information: <http://www.uoguelph.ca/sas>

Academic Misconduct:

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar.

Recording of Materials:

Presentations that are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

Academic Calendar: The Academic Calendars are the source of information about the University of Guelph's procedures, policies and regulations that apply to undergraduate, graduate, and diploma programs:

<http://www.uoguelph.ca/registrar/calendars/index.cfm?index>