

CIS*4500 Special Topics in Computer Science – Mobile Computing
0.50 Credits – Undergraduate – Fall 2018
School of Computer Science – University of Guelph

Lectures:

Tuesdays & Thursdays, 1130-1250
Crop Science 117

Labs:

Thursdays, 1330-1420
Crop Science 116

Instructor Details:

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Office Hours: Wednesdays 1200-1400

Teaching Assistant Details:

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Office: TBA
Office Hours: Tuesdays 1430-1530

Course Website:

<https://courselink.uoguelph.ca/d2l/home/527498>

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.

Required Textbook:

<https://commonsware.com/Android/> (latest version is 8.13 - \$20 USD)

<https://commonsware.com/Android/4-2-free> (latest free version is 6.6)

Course Prerequisites: CIS*3750 or CIS*3760

Course Description:

The course will focus on developing for Android, moving from basic apps through to video-stream editing and RenderScript parallelization, hopefully with some AR and wearable development, time permitting.

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 22 short exercises covering the breadth of Android development. As a further extension and demonstration of 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 (29 November 2018).

Grading Scheme:

22 Android Exercises @ ~1% each = 20% total

Peer Teaching Activity = 40%

Android Group Project = 40%

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

Assessment:

Android Exercises will be assigned every week. I recommend that you work on these as they come out (e.g., during the lab time). They must all be completed by 26 October 2018.

Peer Teaching Activities will be completed in class between 11 September 2018 and 18 October 2018 (inclusive). For your activity, you will have ~40 minutes to teach and demonstrate your particular topic. You will also set an exercise for your peers (the Android Exercise for your topic), which will be administered by me via the course webpage.

Android Group Project will have three milestones:

Milestone 1 (10% - presentation of your idea) will be due in-class 01 November 2018

Milestone 2 (10% - initial design and coding) will be due in-class 15 November 2018

Milestone 3 (20% - public demo of MVP) will be due in-class 29 November 2018

Notes:

- First day of class is Thursday, 06 September 2018.
- There will be no lab on Thursday, 06 September 2018.
- There will be no class on Tuesday, 09 October 2018 (Thanksgiving).
- After 18 October 2018, labs will continue to run as scheduled (for support during your projects), but we will only meet together formally on 01 November 2018 (Project Milestone 1), 15 November 2018 (Project Milestone 2), and 29 November 2018 (Project Milestone 3). Please use the class time to work on your projects.
- The final day of class is Thursday, 29 November 2018.
- 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 <mail.uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

I get a lot of email, so please state the course title and your name in any correspondence you send me. If you send me a question that is answerable via Google, the course text book, your peers, or any other resource besides me, then I will be redirect you instead of answering your question (and that wastes both of our time). Please be respectful in all email correspondence. I 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 end of the fortieth class day; two-semester courses must be dropped by the last day of the 'add period' in the second semester. 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>