Technology & Visual Arts

# Mobile & Pervasive Computing – COMP3025

# Thursday, 12-3, Webex

# Course Description:

Students learn how to develop functional, yet user-friendly mobile applications for a variety of form factors such as phone or tablet, with a strong focus on applying best design principles using human interface guidelines.

The course will be taught using the Kotlin language and the Android operating system.

# Resources:

* Videos and slides available through Blackboard
* Lynda.com/LinkedIn Learning -> “Become an Android Mobile App Developer” course

# Instructor:

Jaret Wright Office: https://georgiancollege.webex.com/meet/jaret.wright Phone: 705-728-1968, ext. 1873 (office)

Email: [jaret.wright@georgiancollege.ca](mailto:jaret.wright@georgiancollege.ca)

Office Hours: <https://calendly.com/jaret-wright/office-hours>

# Expectations for Success:

1. It is not enough to attend the online class regularly, you must actively challenge your mind by building code, creating small proof of concept programs and experimenting with the technology.
2. This class is designed to required 5-6 hours of your time per week (3 in class, 3 outside of class). This will vary depending on your comfort level and previous experiences. Budget enough time between school, work and friends!!
3. Check Blackboard regularly for announcements, readings, work assignments and course updates.
4. Ask questions if you need clarification (in class; via email; or by setting up an appointment via <https://calendly.com/jaret-wright/office-hours>). I will target to reply to emails within 1 business day. Business days are defined as Monday-Friday 8 am to 5 pm.
5. Keep up with your course work. Complete the assigned challenges on time so that you can come to class prepared to discuss the issues and concepts during class time.
6. Submit your assignments by the deadline! You are strongly advised not to wait until the last minute to submit your assignments in case you have computer problems. Although I will do my best to help, if everyone asks questions on the final day something is due, I cannot realistically reply to everyone at the same time. Note the support hours in point 3 above.

# Evaluation:

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| --- | --- |
| In-Class Exercises | 20% |
| Assignment 1a | 5% |
| Assignment 1b | 5% |
| Assignment 2 | 20% |
| Assignment 3 | 20% |
| Final Test | 30% |

# Schedule of Activities:

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| --- | --- | --- | --- |
| WEEK | LESSON |  | DUE |
| 1-Sept 9 | The Android Environment / Intro to Kotlin |  |  |
| 2-Sept 16 | Layouts |  |  |
| 3-Sept 23 | Activities |  | Assignment 1a (5%) |
| 4-Sept 30 | Intents |  |  |
| 5-Oct 7 | Firebase |  | Assignment 1b (5%) |
| 6-Oct 14 | Firebase continued |  |  |
| 7-Oct 21 | Authentication |  |  |
| 8-Oct 28 | Reading Week- No Classes |  | Assignment 2 (20%) |
| 9-Nov 4 | Deployment |  |  |
| 10-Nov 11 | Scrolling and Navigation |  |  |
| 11-Nov 18 | Google Maps and Camera |  |  |
| 12-Nov 25 | Networking |  | Assignment 3(20%) |
| 13-Dec 2 | Networking continued |  |  |
| 14-Dec 9 | Review |  |  |
| 15-Dec 16 | Final Exam |  | Final Exam (30%) |

The sequence and content of this syllabus may change due to unanticipated opportunities or challenges, or to accommodate the learning styles of the students.