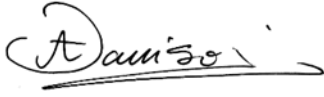


Approved by Chair:



Aug 26, 2020

Signature

COURSE SECTION INFORMATION

COMP3074 Mobile App Development I

Teacher's Name: Przemyslaw Pawluk

Course Code: COMP3074

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Course Section:

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Academic Year: 2020-2021

Office: C467

Term: Fall 2020

Out of Class Assistance

LIST OF TEXTBOOKS AND OTHER TEACHING AIDS:

Required:

- Android: <https://books.goalkicker.com/AndroidBook/>
- React Native: <https://books.goalkicker.com/ReactNativeBook/>

Recommended Resources/References

- <http://developer.android.com/index.html>
- <https://reactnative.dev/docs/getting-started>

Detailed Evaluation System

Assessment Tool:	Description:	Outcome(s) assessed:	EES assessed:	Date / Week:	% of Final Grade:
Lecture quizzes	Quizzes covering last topics discussed in the lecture and lab	1-7	1-7	Week 2-14	10
Lab Exercises	Grade calculated based on atKlass and submissions	1-7	1-10	Week 1-14	10
Lab test 1	In-class programming task	1-3, 7	2-5,7,10	Week 7	10
Lab test 2	In-class programming task	1, 4-7	2-5,7,10	Week 12	10
Assignment 1	Take-home assignment covering basic functionality in Android	1-3, 7	2-5,7,10	Week 3 (due week 5)	10
Assignment 2	Take-home assignment extending functionality of A1	1, 4-7	2-5,7,10	Week 5 (due week 9)	10
Project	Team project that covers multiple topics and requires incremental work.	1-7	1-11	Due week 14	20
Final Exam	Multiple choices, along with coding questions.	1-7	1-7	Week 15	20
TOTAL:					100%

Learning Schedule / Topical Outline (subject to change with notification)

TOPICAL OUTLINE

Week	Topic / Task	Outcomes	Content / Activities	Resources
1	Intro to the course Android SDK and Tools Java vs Kotlin Android – Basics Activities and Services	1-3	Lecture/Lab	
2	Intents, Broadcast, Resources Building UI in Android Layouts and Views Unit tests	2-3	Lecture/Lab	
3	Fragments vs Activities	2-3, 7	Lecture/Lab	
4	Data storage (Files, Preferences and Database)	2-3, 7	Lecture/Lab	
5	Location services in Android, GPS, Security	2-3, 7	Lecture/Lab	
6	Accessing sensors and camera	2-3, 7	Lecture/Lab	
7	App testing and publishing	2-3, 7	Lecture/Lab	
8	INTERSESSION WEEK			
9	Introduction to web technology? Tools configuration Introduction to React Native app development. JS review Creating components in React Native Building a React Native application	4-6	Lecture/Lab	
10	Basic UI components Implementing google map component in react native app. Access data from web	4-6	Lecture/Lab	
11	Implementing Styles in React Native Different types of styles. Exporting styles objects Reusing styles Flexbox and Layouts	4-6	Lecture/Lab	
12	Data Storage, AsyncStorage and security issues	4-7	Lecture/Lab	
13	Navigation and Structure in React Native Applications Project Structure Application Screens Reusable Components	4-7	Lecture/Lab	
14	Redux and Maintaining State. React Native app developing using Expo component.	4-6	Lecture/Lab	

15	<p style="text-align: center;">Exam</p> <p style="text-align: center;">Presentation of projects in the lab</p>
<p style="text-align: center;">Please note: this schedule may change as resources and circumstances require.</p> <p>For information on withdrawing from this course without academic penalty, please refer to the College Academic Calendar: http://www.georgebrown.ca/Admin/Registr/PSCal.aspx</p>	