COQUITLAM COLLEGE
Established 1982

COURSE OUTLINE

Last Revised: Spring 2020

COURSE INFORMATION

Course Title: Introduction to Android Mobile App Development   **Course Number:** CSCI 285   **Credits:** 3

Total Weeks: 14 (Fall, Spring)   **Total Hours:** 39   **Course Level:** ☐ First Year   ☒ Second Year
12 (Summer)   ☐ New   ☐ Revised Course
                                                                             ☐ Replacement Course

Department: Computer Science   **Department Head:** M. O'Connor   **Former Course Code(s) and Number(s) (if applicable):** N/A

Pre-requisites (If there are no prerequisites, type NONE): CSCI 125

Co-requisite Statement (List if applicable or type NONE): NONE

Precluded Courses: N/A

COURSE DESCRIPTION

This practical course introduces Android application development for mobile devices. It is designed for students with a solid background in object-oriented programming in Java. Students will learn the fundamental concepts and terminology of Android application development and acquire skills to develop, debug and deploy mobile apps. They will be equipped with an understanding of version control systems and will get to know useful online resources for Android development that will empower them to expand their basic skills.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Explain the components of the Android platform.
- Use Android Studio as an IDE for Android app development.
- Design a responsive user interface for an Android app using material design principles.
- Develop interactive mobile apps.
- Use logging and the debugger for program development.
- Build an app with multiple activities.
- Create an Android project using persistent data.
- Develop an app with animations.
- Create services for background processing.
- Deploy an app to the Google Play Store.
- Use a version control system for software development.
- Expand their skills by researching adequate online resources.

INSTRUCTION AND GRADING

Instructional (Contact) Hours:

Type	Duration
Lecture	39
Seminars/Tutorials	
Laboratory	
Field Experience	
Other (*specify):*	
Total	39

COURSE OUTLINE

Grading System: Letter Grades ☒   Percentage ☐   Pass/Fail ☐   Satisfactory/Unsatisfactory ☐   Other ☐

Specify passing grade: 50%

Evaluation Activities and Weighting (total must equal 100%)

Assignments:	10%	Lab Work:	5%	Participation:	5%	Project:	%
Quizzes/Test:	10%	Midterm Exam: 30%		Final Exam: 40%		Other: *Specify:*	%

TEXT(S) AND RESOURCE MATERIALS

Provide a full reference for each text and/or resource material and include whether required/not required.

Textbook to be announced

COURSE TOPICS

List topics and sequence covered.

Week	Topic
Week 1	The Android World; Android Studio
Week 2	Components of an Android App
Week 3	User Interface Design; XML
Week 4	Interactive Apps; Debugging; Logging
Week 5	Activities, Intents
Week 6	Introduction to Version Control
Week 7	App Bar; Action Bar
	MIDTERM EXAM
Week 8	List View; Adapters; Spinner
Week 9	Fragments; Fragment Life Cycle
Week 10	Persistent Data
Week 11	Animation
Week 12	Services
Week 13	Publishing an App
Week 14	**FINAL EXAM**

NOTES

1. Students are required to follow all College policies. Policies are available on the website at: Coquitlam College Policies
2. To find out how this course transfers, visit the BC Transfer Guide at: bctransferguide.ca

Last Revised: May 2020
Last Reviewed: September 2020