COQUITLAM COLLEGE
Established 1982

COURSE NUMBER: CSCI285

CREDITS: 3

COURSE TITLE:
INTRODUCTION TO ANDROID MOBILE APP DEVELOPMENT

PREREQUISITES: CSCI 125

Weekly Hours: 3	**Lecture: 1.5**	**Lab: 1.5**	**Total Hours: 3**	**Total Weeks: 13**

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.

TEXTBOOK: no textbook.

LEARNING OUTCOMES:

Upon successful completion of this 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.

COURSE CONTENT:

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	Midterm Exam Introduction to version control
Week 7	App bar, action bar
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

EVALUATION:

Participation (assignments and attendance)	20%
3 Projects	20%
Midterm Exam	25%
Final Exam	35%
Total	100%

PLAGARISM, ACADEMIC HONESTY, AND EXAMS:

Students must hand in their own work in class assignments and projects. Passing on someone else's ideas, writings, or programs as one's own solutions in assignments, without citing the original source, is considered as plagiarism and as academic dishonesty. Those submissions will be marked as 0%.

Submissions of students who shared their work with other students (unless on team projects) will also be marked as 0%.

If a student misses an exam, a mark of 0% will be assigned unless there are extenuating circumstances. In such cases, the proportion of the grade assigned to the missed exam will be added to the proportion assigned to the final exam. The final exam will be held during the exam week. No consideration, except medical conditions, will be given to any student wishing to write the exam at any other time than the assigned one.

It is a student's responsibility to know and follow the college's policies regarding cheating on exams as outlined in the student handbook.

Unauthorized electronic devices such as calculators, smart phones, or smart watches are not allowed during exams according to the college's policy. A student who has an unauthorized electronic device on their person or around their desk is considered guilty of cheating and an "F" grade might be given for entire course.