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CSTP 2205: Android Mobile Application Programming

EFFECTIVE DATE

September 2019

DEPARTMENT

Computer Systems Tech Diploma

DESCRIPTION

This hands-on course concentrates on using the Android operating system as well as common related development environments like Android Studio, SDK (Software Development Kit) tools to build and deploy native Android applications in Java. Student learn to manage Android resources, design user interfaces with layouts, create Services, employ multi-threading paradigms, and make sure of REST (REpresentational State Transfer) endpoints. Other topics may include Location Based Services, network connectivity, and accessing Cloud services and data.

CREDITS

3.0

YEAR OF STUDY

2nd Year Post-secondary

PREREQUISITES

CSTP 1205 Programming in C++

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Describe the Android platform and architecture
- Perform Android development setup including SDK, Emulators and Development Environment
- Use Android SDK libraries and functions when developing a mobile application
- Develop User Interface in Android environment using its various gadgets and layouts
- Use Services on Android to run background tasks and services
- Use REST endpoints for service and data needs in mobile apps
- Leverage Android Persistence capabilities to store user data in mobile apps

- Explore Packaging and Publishing Android applications
- Explore advanced topics like Google Play APIs and other new advancements to Android platform

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 30

Lab: 30

INSTRUCTIONAL STRATEGIES

Instructional strategies include classroom lectures, demonstrations, group discussions, computer lab and hands-on practical work.

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

C

EVALUATION PLAN

Type	Percentage	Assessment activity
Assignments	40	4 assignments worth 10% each
Project	30	could be individual or team work
Final Exam	30	

COURSE TOPICS

- Android Platform
- Android Studio and SDK
- Java programming language
- Android services
- REST endpoints
- Google Play API

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

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Downtown campus

250 West Pender Street
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Annacis Island campus

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