

The College of New Jersey - School of Engineering

AndroidOS Mobile Application Android Studio Integrated Development Environment



Learn To Build Your First
AndroidOS Mobile Application

Learn To Work With
Android Studio Integrated Development Environment

Improve Your Java Programming Skills

Learn And Use Effective Design Techniques for
Mobile Phones and Tablets

Course Format - Hybrid

On Campus In-Person Class in Ewing, NJ Followed
By Live, In Person Remote Instruction Course Outline
and Registration at:

<https://cpe.tcnj.edu/build-mobile-applications/>

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Taught By
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Department Chair - Associate Professor
Electrical and Computer Engineering
Professor at The College of New Jersey

Drexel University

Bachelor of Science (BS)

Computer Engineering

Doctorate of Philosophy (PhD) Electrical
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Biography and CV available at
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AndroidOS Mobile Application

Android Studio Integrated Development Environment

Why Learn AndroidOS Mobile Applications /Android Studio Integrated Development Environment (IDE)?

Mobile applications play an important role in modern business and technology. The ability to develop these applications in a structured and aesthetic way is a valuable tool. In this course, you will build your first AndroidOS mobile application while learning about the Android Studio Integrated Development Environment (IDE) and improving your Java programming skills. Using effective design techniques, you will ensure that your mobile application looks great on an Android mobile phone or tablet. Although this course does not address development of iOS specifically, it does present many concepts that apply to Apple technology.

What are the Learning Objectives?

1. Develop mobile applications for the Android operating system (OS)
2. Manage files and code within the Android Studio IDE
3. Improve those Java programming skills relevant to mobile applications
4. Design and implement static as well as dynamic user interfaces
5. Develop software that employs asynchronous programming and multi-threading
6. Develop custom interfaces and listeners for communication between threads
7. Manipulate data in JavaScript Object Notation (JSON) and Plain Old Java Notation (POJO)
8. Introduce data storage within the Amazon Cloud
9. Properly manage exceptions and errors

Who should attend?

This course is designed for adult learners with some background in programming and specifically in the Java language. If you have experience programming for other platforms but want to learn about programming for mobile platforms, this course provides a foundation.

Technical requirements

A laptop running Windows 7 or better or a laptop running Mac OS X is required. In advance of the course, students will receive instructions to install Android Studio. This IDE is available for free via download. Students are also required to bring an Android mobile device running AndroidOS version Marshmellow or newer.

Course Schedule - Fee

Monday and Tuesday, March 18 and 19, 2019
9:30am - 4:30pm
TCNJ Campus, Ewing NJ
Wednesday and Thursday, March 20 and 21, 2019
Live Online - 2 hours daily Time TBD
Fee: \$600.00

\$550.00 TCNJ Alumni

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