

CURRICULUM



SCHEDULE

Full-time Immersive
10AM to 6:30PM



LOCATION

TurnToTech
40 Rector St. 10th Floor
New York, NY 10006



CONTACT US

nyc@turntotech.io
+1-212-924-8324



CURRICULUM OVERVIEW:

GOALS OF THIS COURSE:

At the end of the course, we want you to be able to program fluently in Java, use the Android tools with confidence, and build fully functional Android apps of almost any complexity.

INSTRUCTORS:

Our instructors are highly qualified mobile developers with deep expertise in Android, iOS and Web with over a decade of software experience.

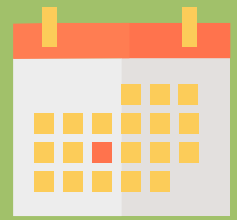
In addition to learning Programming from them, you will benefit from getting career advice that is tailored to your interests and expertise. Our instructors are always available to offer you their insight into apps you may be working on, and guide you through each stage of the development process.

CLASS FORMAT:

Students will be provided with a login to our online Learning Management System called **justCode**. This system has:

- Videos and Reading materials
- Quizzes and Assignments

All Android tooling (compilers, IDE, build system) is pre-installed on our cloud and accessed through **justCode**. During class times, our instructors will present the materials to be covered during the week and explain the assignment. Students are then expected to work hands-on. Q&A is encouraged throughout the session.



WEEKLY PLAN: WEEKS 1 - 5

WEEK 1: THE JAVA PROGRAMMING LANGUAGE

- The Android development ecosystem – Android Studio, Java, Android OS & Tool
- Control flow
- Data types
- Functions and Closures
- Classes and Objects
- Memory Management (Garbage collection) in Java

WEEK 2: MORE JAVA ESSENTIALS

- Dalvik VM and new options
- Strings
- Collections
- Algorithms
- Packages in Java

WEEK 3: OBJECT-ORIENTED PROGRAMMING FOR ANDROID

- More on classes and objects
- Android-based examples of classes and Objects
- Instagram clone – Phase 1

WEEK 4, 5: INTRODUCTION TO ANDROID DEVELOPMENT

- Android Development fundamentals – Activity, Dynamic UI, App Layouts
- Essential ideas – MVC, Asynchronous programming, JSON and HTTP
- Instagram clone – Phase 2

WEEKLY PLAN: WEEKS 6 - 12



WEEK 6, 7: MORE ON VIEWS AND CONTROLLERS

- List Views
- Intents
- Fragments
- Navigating between different screens of your app
- Arrays and array adaptors – accessing the Android address book
- Gestures
- Cleanly separating data from your views and controllers
- Instagram clone – Phase 3

WEEK 8, 9: DATA PERSISTENCE

- Data persistence strategy for mobile
- Storing user preference data using Shared Preferences
- Android independent, local storage using SQLite
- Advanced SQLite with Content Providers
- Instagram clone – Phase 4

WEEK 10, 11, 12: PRE-BUILT ANDROID FRAMEWORKS & BEST PRACTICES

- Maps
- Social Framework – Facebook and Twitter
- Audio & Camera
- Instagram clone – Phase 5

WEEKLY PLAN: WEEKS 12 - 16



WEEK 12 (CONTINUED): PRE-BUILT ANDROID FRAMEWORKS

- Detecting connection type – Wi-Fi/4G
- Sensors – a gyroscope example
- Home screen widgets
- Security in Android Apps
- Mobile development – best practices
 - › *Covers the entire lifecycle of Android app development and various pitfalls and strategies for ensuring success in your Android project*
- Instagram clone – Phase 6

WEEK 13, 14, 15, 16: INSTRUCTOR-SUPERVISED PRACTICAL TRAINING

Note: If you complete your coursework sooner, you can spend more time on the instructor-supervised practical training.

You will now work on a professional project which is live or going live shortly on the app store. The code base will be much larger than anything encountered so far. It will have code written by several developers and you will be given specific assignments such as adding push notifications, fixing the animation behavior, etc. You'll be working closely with our experienced developers and others in your cohort.

COURSE SUMMARY



At the end of the course, we want you to be able to program fluently in Java. You will use the Android tools with confidence and build fully functional Android apps of almost any complexity.

BENEFITS OF TAKING A COURSE AT TURNTOTECH

As part our full time program at TurnToTech, you will get access to valuable resources such as:

- Our full time career counseling
- Personalized coaching on your job hunt
- Mock-interviews and weekly coding challenges
- Networking opportunities with partners and alumni
- Free use of our co-working space



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