

MOBILE APPLICATIONS DEVELOPMENT
COURSE CODE: 5378
ADDITIONAL MATERIALS AND RESOURCES

Instructional Materials

[Common Career Technical Core Standards](#)

[CodeHS](#)

[MobileCSP](#)

CTSO's:

[Skills USA](#)

[FBLA - Mobile Application Development](#)

[Technology Student Association](#)

[Computer Science Honor Society](#)

Assessments/Certifications:

[MTA \(98-368\) Mobility and Device Fundamentals](#)

[Google Associate Android Developer](#)

[CIW Mobile Application Developer](#) (coming soon)

[App Development with Swift - Certified User or Associate](#) (Apple)

Data:

[SQLite](#) (Built in to Android)

Platform: [MIT App Inventor for Droid](#)

Programming Languages:

Python

Visual Basic

Java

Kotlin

Block Coding

C#

C++

JavaScript

[Xcode for Apple](#)

- Objective C
- Swift

Literature:

[CNet: Daily News](#)

[SciTech Daily](#)

Tutorials:

[Microsoft Learn](#)

[Code.org Computer Science Principles](#)

[Beauty and Joy of Computing](#)

[UTeach](#)

[Swift \(Apple\)](#)

[Ionic with JavaScript](#)

[Android Studio build your first app](#)

[Apple - K-12 Teaching Code](#) - Swift playgrounds and guides

Deployment:

[UML Deployment Diagram Example \(iTunes\)](#)

[UML Deployment Diagram Example \(Android\)](#)

Professional Development:

[Mobile Application Development Careers](#)

[Industry Standards for App Development](#)

[Future of Privacy Forum and the Center for Democracy and Technology: Best Practices for](#)

[Mobile App Developers](#)

[IEEE Mobile/App Guidelines](#)

[Mobile Developer Job Description](#)

[O*Net](#)

[SCOIS with subscription](#)

Other Sources:

[Learning Android, 2nd Edition](#) by Marko Gargenta and Masumi Nakamura

[Head First Android Development](#) by Dawn Griffiths and David Griffiths

[High Performance Android Apps](#) by Doug Sillars

[Android Programming: The Big Nerd Ranch Guide \(3rd Edition\)](#)

[Quora Response](#) recommending online tutorials and books to learn Android development

[Android Studio Development Essentials](#) by Neil Smyth

[Google's Android Developer pages](#)

[Android Source Documentation](#) (for understanding the architecture of Android)

Equipment listing:

Emulators for various platforms

Mobile devices (Smartphone/tablet) per student

Computer per student which meets the requirements for programming with the chosen platform