

# iOS Developer Nanodegree Syllabus

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## Contact Info

While going through the program, if you have questions about anything, you can reach us at [support@udacity.com](mailto:support@udacity.com). For help from Udacity Mentors and your peers visit the Udacity Classroom.

## Nanodegree Program Info

**Version:** 4.0.0

**Length of Program:** 166 Days\*

*\* This is a self-paced program and the length is an estimation of total hours the average student may take to complete all required coursework, including lecture and project time. Actual hours may vary.*

## Part 1: Welcome to the Nanodegree

## Part 2: Learn Swift Programming

Learn the basics of Swift, the programming language used to develop iOS apps.

## Part 3: Intro to iOS App Development with Swift

Build your first app with Swift and Xcode, Apple's programming environment for app development.

### **Project: Pitch Perfect**

Create an iPhone app that records a conversation with you and a friend and plays it back to make you sound like a chipmunk or Darth Vader!

## Part 4: UIKit Fundamentals

Develop an app with UIKit, Apple's front-end framework for developing fast and powerful web interfaces.

### **Project: MemeMe 1.0**

You'll create a first version of the MemeMe app that enables a user to take a picture, and add text at the top and bottom to form a meme.

### **Project: MemeMe 2.0**

You'll create a final version of the MemeMe App. Memes will appear in a tab view with two tabs: a table view and a collection view.

## Part 5: Network Requests and GCD

Incorporate networking into your apps, and harness the power of APIs to display images and retrieve data. Use Apple's Grand Central Dispatch, or GCD, framework to create asynchronous apps, ensuring a smooth user experience, even while your apps run lengthy operations in the background.

### **Project: On the Map**

In this project, you'll pull in data from a web service to display a map with pins. Tapping on a pin will display a custom URL posted by another iOSND student at that location.

### **Project: Improve Your LinkedIn Profile**

Find your next job or connect with industry peers on LinkedIn. Ensure your profile attracts relevant leads that will grow your professional network.

### **Project: Optimize Your GitHub Profile**

Other professionals are collaborating on GitHub and growing their network. Submit your profile to ensure your profile is on par with leaders in your field.

## Part 6: Data Persistence

Learn about simple persistence, the iOS File System, and the "sandbox." Set up the classes we need to get Core Data up and running so that we can create, save, and delete model objects. Enable user interfaces to reactively update whenever the model changes, and safely migrate user data between versions.

### **Project: Virtual Tourist**

Build an app that lets you tour the world from the comfort of your home. Users will be able to drop pins on a map, download pictures for the location, and save favorites to their device.

## Part 7: Project: You Decide!

This is your chance to let your iOS Developer skills shine! For this final project, you'll design and build your own iOS app, taking the design from the drawing board to the App Store.

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