

# IOS & SWIFT ESSENTIALS

## Syllabus



# WHO SHOULD TAKE THIS COURSE?

- Existing object-oriented developer who wants to learn iOS development
- Students should already be familiar with basic programming concepts: variables, statements, functions, arrays, data structures and common programming problems

## SYLLABUS

### Swift

- Understand elements of the Swift standard library
- Learn about Swift's approach to safety and how to use it to write better apps
- Implement Swift's functional patterns and utilize extensions to extend "out-of-the-box" functionality

### Xcode

- Navigate Apple's IDE for developing iOS applications
- Debug problems with applications using the tools that Xcode provides

### User Interfaces

- Explore basic interface elements such as labels, buttons, and segmented controls
- Use text fields along with the delegation design pattern to gather user input
- Build interfaces more easily using stack views
- Use containers such as tab bar and navigation controllers to manage more complicated application structures
- Design flexible interfaces that scale across different devices and screen sizes using Auto Layout and size classes

### Collections

- Learn how to utilize the data source design pattern
- Display lists of elements using table views
- Display grids of elements using collection views

### Localization

- Remove hard-coded locale-specific information - such as date formatting and decimal separators - from applications
- Localize applications into more than one language

### Collections

- Learn how the file system is organized on iOS
- Use archiving to persist simple object graphs to the file system

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