

ROCK VALLEY COLLEGE
BUSINESS/COMPUTERS AND INFORMATION SYSTEMS DIVISION

Spring 2015

Instructor : Chuck Konkol

Title: Associate Professor

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Office Hours:

M | 6:15-7:30 T | 3:30p-4:30p/6:00p-7:00p, Th | 3:15p - 4:15p/6:00p-7:00p

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CIS 280

Programming iOS Apple Mobile Devices

COURSE DESCRIPTION

Introduces programming simple iOS mobile device applications using Cocoa and SWIFT. Students will learn basic SWIFT concepts, iPad programming basics, and use the SDK environment on Apple Macintosh computers with OS X as a development platform. Design concepts and programming tools will be integrated with an emphasis on developing and deploying iPad applications.

Prerequisite: Reading 096

Credits: 4

Lecture: 3

Lab: 2

COURSE OBJECTIVES

Upon successful completion of this course, the student will be able to:

1. Use SWIFT Programming Language, including its basic syntax and use in iPad OS app development.
2. Use a Macintosh computer with Mac OS 10.10 or greater with the Xcode development environment.
3. Create applications that run iOS on Apple mobile devices.
4. Customize a user interface (UI) using the Cocoa Touch class library.
5. Construct UI with components such as T Views, Navigation Controllers, Tab Views, buttons, labels, and text fields.

COURSE TOPIC OUTLINE

Topics to be covered may include some or all of the following:

1. Getting Started with iOS 6 Programming
2. Writing Your First Hello World! Application
3. Understanding Views, Outlets, and Actions
4. Exploring the Different View Controllers
5. Enabling Multi-Platform Support for the iPhone and iPad
6. Handling Keyboard Inputs
7. Supporting Screen Rotations
8. Displaying and Persisting Data Using the Table View
9. Using Application Preferences
10. File Handling
11. Database Storage
12. Programming iCloud
13. Performing Simple Animations and Video Playback
14. Accessing Built-In Applications
15. Accessing the Sensors
16. Package and Deploying to Apple App Store

METHOD(S) OF STUDENT ASSESSMENT

Student assessment methods may include some or all of the following:

1. Computer assignments
2. Demonstration
3. Class participation
4. Small group exercises
5. Discussion

REQUIRED READINGS AND SUPPLIES

Online Resources

Mac Computer (OS X v10.10 or later)

iPad 3

Flash drive or other portable storage device

NOTIFICATION OF SERVICES FOR STUDENTS WITH DISABILITIES

"If you have a documented disability and would like to request accommodation and/or academic adjustments, contact the Disability Support Services Coordinator. You should contact the coordinator as soon as a need for accommodation is known so that implementation can occur as soon as possible. The coordinator's office is G87 in the ERC. The telephone number for this office is 921-2356."

DISCLAIMER

Circumstances may require some changes to this syllabus.

DATE SUBMITTED

Spring, 2014; C.Konkol