## Print Date: 5/20/15 Course Objectives/Course Outline Spokane Community College

Course Title:	Mobile IV-IOS 1
Prefix and Course Number:	CIS 221
Course Learning Outcomes:	

Course Learning Outcomes:

## By the end of this course, a student should be able to:

- Use proper language coding techniques in Swift
- Build iOS smartphone/tablet applications that utilize the native interface
- Test applications using virtual devices as well as physical iOS smartphone/tablet devices
- Utilize native database systems for storing user data and preferences

## **Course Outline:**

- I. Introduction to Swift
  - A. Installation and versions
  - B. XCODE Integrated Development Environment (IDE) usage
  - C. Writing a first Swift native application
  - D. Testing application on a virtual mobile device
  - E. Testing application on a physical mobile device.
- II. Responsive Application Design
  - A. Developing screen size agnostic applications for both portrait and landscape modes
  - B. Using native user controls and screen elements
  - C. Aligning and positioning elements dynamically based on screen sizes
  - D. Modifying and interacting with elements dynamically
- **III.** Introduction to Files and Databases
  - A. Using local file storage
  - B. Storing data in a database on the device
  - C. Using alarms and other notification features on the device
  - D. Graphing data