

GENERAL INFORMATION	
Course Prefix/Number: COP2658	Course Title: <b>iPhone Application Development</b>
Number of Credits: 4 credits	
Degree Type	<input type="checkbox"/> B.A. <input type="checkbox"/> B.S. <input type="checkbox"/> B.A.S. <input checked="" type="checkbox"/> A.A. <input type="checkbox"/> A.S. <input type="checkbox"/> A.A.S. <input type="checkbox"/> C.C.C. <input type="checkbox"/> A.T.C. <input type="checkbox"/> V.C.C.
Date Submitted/Revised: 4/13/12	Effective Year/Term: 2012-1
<input checked="" type="checkbox"/> New Course Competency <input type="checkbox"/> Revised Course Competency	
Course Description (limit to 50 words or less):  This course is designed for students majoring in Computer Science, Computer Information Systems, and related disciplines. Students will learn how to create mobile applications that can be deployed to iPhone smartphones, tablets or simulators utilizing Cocoa and XCode for development. Emphasis will be placed on learning the underlying iPhone framework and components in order to create quality mobile applications. A.S. degree credit only. Special fee. ( 3 hr. lecture; 2 hr. lab )	
Prerequisite(s):	Corequisite(s):

**Competencies:**
**Competency 1:**

The student will demonstrate an understanding of the iPhone Integration Development Environment (IDE) by:

1. Setting up a project using XCode and manipulating the settings to create an iPhone application.
2. Utilizing the Interface Builder in XCode to generate NIB or XIB user interface files.
3. Changing attributes within the user interface file to customize the user interface files.

**Competency 2:**

The student will demonstrate an understanding of the application framework and configuration by:

1. Utilizing the application delegate class to launch the application.
2. Describing the application delegate's lifecycle methods and when they are called.
3. Using the defaults system class to change application settings.

**Competency 3:**

The student will demonstrate an understanding of inter-application communication by:

1. Demonstrating how to launch one application from another application programmatically.
2. Utilizing the pasteboard to pass information from one application to another.

**Competency 4:**

The student will demonstrate knowledge of views by:

1. Utilizing the UIView class to create a frame within the window of the main application
2. Animating a view by resizing it and applying animations.

Revision Date:

Approved By Curriculum Report: 92

Reviewed By Director of Academic Programs Date: \_\_\_\_\_

3. Setting up resize logic for landscape and portrait orientation.
4. Loading and animating images within the view.
5. Enabling zooming and scrolling within a single view.

**Competency 5:**

The student will demonstrate knowledge of advanced views by:

1. Creating a page control that scrolls between multiple views.
2. Utilizing progress and activity indicators to show the user how much of the task has been performed.
3. Displaying an Alert message utilizing an alert view.
4. Utilizing an action sheet to obtain a response from the user.
5. Creating a simple picker view that utilizes a spin type of control for user input.

**Competency 6:**

The student will demonstrate knowledge of toolbars by:

1. Utilizing the appropriate class to create a toolbar within the application.
2. Adding buttons to the toolbar with methods that are called when it is pressed.

**Competency 7:**

The student will demonstrate knowledge of controls by:

1. Creating a default button type programmatically and assigning them custom images.
2. Implementing a custom slider control that allows the user to select from a range of value.
3. Implementing a custom segmented control that allows the user to pick from a set of values.

Revision Date:

Approved By Curriculum Report: 92

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