North Hennepin Community College

CSCI 2500: Introduction to Mobile Programming in iOS

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites:
This course requires the following prerequisite
CSCI 2400 - Objective-C for Mobile Programming (Minimum grade: 3.0 GPA Equivalent)

Corequisites: None

MnTC Goals: None

The course teaches students how to write mobile applications for iOS-based devices, building on Objective-C fundamentals. The course will lead the students through the essential concepts, tools, and techniques for developing iOS applications.

After completing this course, the students will have the knowledge and skills needed to create applications for iPhones and iPads.

Prerequisite: CSci 2400 with minimum grade B

B. COURSE EFFECTIVE DATES: 08/27/2012 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. The course teaches students how to write mobile applications for iOS-based devices, building on the knowledge of Objective-C fundamentals. The course will lead the students through the essential concepts, tools, and techniques for developing iOS applications.
2. The course should utilize Xcode or another current, industry-accepted integrated development environment. It needs to put emphasis on handling touch events and gestures. It should also pay attention to Core Location and Map Kit features allowing utilization of GPS-based hardware in iPhones and iPads.
3. Taking advantage of the fundamental design patterns, proper troubleshooting and reviewing the code should be imbedded in the course fabric.

D. LEARNING OUTCOMES (General)

1. Gain sufficient knowledge of the specifics of programming in iOS 5 operating environment. (NHCC ELO 1; Program goal A).
2. Develop an ability to create complete applications deployable to iPhone and iPad (NHCC ELO¿s 1, 2; Program goal B).
3. Develop critical thinking skills through problem analysis, algorithm development, coding, and testing (NHCC ELO¿s 1, 2; Program goal B).
4. Become competent in writing and reading data in the framework of iOS filesystem. (NHCC ELO¿s 1, 2; Program goal C).

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted