COLLIN COLLEGE

COURSE SYLLABUS

Course Information

Course Number: ITSE 1371

Course Title: iOS Programming Fundamentals (Swift) ~~iPhone (iOS) Programming I – Objective C~~

Course Description: Course covers the basics of the Swift language and the use of development tools for iOS application programming. ~~This course is intended to prepare the student for development of iOS devices, including iPhone, iPod Touch and iPad. Objective-C is the native language for iOS development and the course will cover the basics of the language and the use of development tools for mobile device programming. Topics to be covered will include basic data types, classes and objects, looping structures, decision making, inheritance and memory management. Course will also provide an introduction to the Cocoa Touch toolkit.~~

Course Credit Hours: 3
Lecture Hours: 2
Lab Hours: 2

Prerequisite: COSC 1315 or COSC 1436 or ITSE 1332 or consent of Instructor ~~or Department Chair~~

Student Learning Outcomes:

- **Collin Outcomes:** Upon successful completion of this course, students will:
  1. Identify the basic data types in the Swift language. (SCANS: F10, C11, C12, C13)
  2. Differentiate between classes, structs and enums. (SCANS: F8, F9, F11, C14)
  3. Describe the control structures using Swift language. (SCANS: C11, C12, C13, C14)
  4. Identify Swift language usage and standards. (SCANS: C11, C12, C13, C14, F11)
  5. Create Swift based programs for iOS devices. (SCANS: F8, F9, F11, C14)
  6. Describe the environment for developing i-Phone applications. (SCANS: F8, F9, F11, C14)

~~1. Itemize the basic data types in the Objective-C language.~~
~~2. Describe the definition of object oriented classes.~~
~~3. Develop an application which uses classes and generates objects.~~
~~4. Describe the looping structures of the Objective-C language.~~
~~5. Identify Objective-C language usage and standards~~
~~6. Create Objective-C based programs for iOS devices.~~
~~7. Demonstrate using Cocoa Touch toolkit in the development of iOS graphical interfaces~~

Secretary's Commission on the Acquisition of Necessary Skills (SCANS) - SCANS skills are a group of foundational skills and workplace competencies that the Secretary's Commission on the Acquisition of Necessary Skills established as vitally important for workplace success in the 21st century. In Collin's workforce programs, the SCANS skills are developed and reinforced throughout the curriculum to provide students with an opportunity to hone these skills/competencies in the context of their education. Over the course of an entire degree program, the successful student is expected to demonstrate all of the SCANS skills and competencies as part of their education. The SCANS Foundation Skills and Workplace Competencies are described at:
http://www.collin.edu/academics/programs/Workforce_SCANS_Skills_Syllabi_Code_Key.pdf

Withdrawal Policy: See the current *Collin Registration Guide* for last day to withdraw.

Collin College Academic Policies: See the current *Collin Student Handbook.*

Americans with Disabilities Act Statement: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.