NorthWest Arkansas Community College
Division of Business and Computer Information Systems

Computer Information Department Course Outline

PROG 1603 Apple Programming (F)

Catalog Description

This is an introductory programming course for students wanting to develop software for Apple Macintosh computers, iPhones, iPads, Apple Watches, and Apple TV devices. The student will gain knowledge and skill in the development of applications with the current Apple programming language. Specific areas of emphasis will include familiarity with Apple's XCode development system, the Foundation Framework, and memory management techniques. The student will also gain experience in the design and development of object-oriented applications, the OS-X and iOS graphical user interfaces, interaction with the user, and presentation of multimedia content. (Outside lab time will be required.)

Prerequisites

PROG 1003-Introduction to Programming Logic
Or Instructor Approval

Credit hours/Contact hours/Load hours

3/3/3

Target Audience/Transferability

This course is for students seeking training and experience programming in the current Apple programming language, applicable to students seeking self-improvement or an AAS Degree in Computer Information.

Student Learning Outcomes

The students completing this course will:

- Gain proficiency in the use of Apple's XCode development system
- Be able to develop and design appropriate decision and looping structures
- Be able to develop and test functions, structures, and enums
- Be able to develop and test classes
- Be able to manipulate data using the collection data structures
- Be able to debug and correct a program
- Be able to build simple user interfaces

Topics

- XCode development system
- Apple's preferred programming language
- Collection data structures
- Object-Oriented Programming and Design
- OS-X and iOS graphical user interface controls

Forms of Assessment

Chapter quizzes
Programming projects
Final programming project