

Laney College

iOS Programming

Overview

College	Laney - Mathematics and Sciences
Originator	Patrick McDermott
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	4/12/2018
Curriculum Committee Approval Date	10/07/2016
Board of Trustees Date	12/13/2016
Current Effective Date	6/18/2018
Program Control Number	36575
Top Code	0707.10 - Computer Programming/Programmer, General*
CIP Code	11.0201: Computer Programming/Programmer, General.

Description

The iOS Mobile Application Programming certificate prepares students for careers as entry-level mobile application developers and quality assurance engineers. Students are taught to program native mobile applications utilizing the iOS Developer SDK. In addition to learning the fundamentals of programming for iOS devices, students learn to develop applications that support quality user-experience, memory efficiency, data reliability, and security.

Career Opportunities

Students completing this certificate program will be qualified for employment as entry-level app developers and quality assurance technicians

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze a problem and interpret technical specifications to create and program appropriate algorithmic solutions that include the use of control structures, parameters and return values
 2. Design and implement abstract data types using classes, encapsulation, inheritance and polymorphism
 3. Create User Interfaces UIs using controls, layout managers, adaptors, menus and dialogs
 4. Implement iOS applications incorporating activities, services, content providers, broadcast receivers, location tracking, maps, and internet access.
 5. Integrate database management systems, media/content playback, and APIs.
 6. Implement memory management best practices.
 7. Write and debug apps using multiple threads, including their use to optimize power efficiency and performance.
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Degree Requirements:

Complete the following courses:

Credit Hours: (16 Required)

CIS 006	Introduction to Computer Programming	5
CIS 068A	iOS Programming	3
CIS 068B	Advanced iOS Programming	3
CIS 025 or	Object Oriented Programming Using C++	4

CIS 036A	Java Programming Language I	4
CIS 205	Computer Literacy	1

Total: 16

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