

iPhone App Programming Certificate of Accomplishment - Active

Department: Computer Science

Approval: February 2018

Effective Semester: Fall 2018

This certificate is designed to teach students how to program native apps (mobile device applications) to run on iPhones, iPads, and other iOS devices. Students learn the basics of programming in Swift, and possibly also Java or C++. Students also learn the specifics of how to program for iPhones. Students completing this certificate program will be qualified for employment as entry-level app developers and quality assurance technicians.

Learning Outcomes

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

- Analyze a problem and interpret technical specifications to create and program appropriate algorithmic solutions.
- Develop and test Swift classes and protocols, implementing the model-view-controller (MVC) paradigm.
- Extend User Interface Kit (UIKit) classes to create custom view controllers.
- Create working iPhone applications that utilize the distinctive capabilities of iOS.
- Operate effectively within a team, gaining work experience

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the Certificate of Accomplishment in iPhone App Programming

Course	Units
Choose one of the following Programming Fundamentals courses:	
CS 112 - Beginning iPhone Programming using Swift	4.00
CS 110B - Programming Fundamentals: C++	4.00
CS 111B - Programming Fundamentals: Java	4.00
Total:	4.00
Required capstone course:	
CS 212 - iPhone Programming	4.00
Total:	4.00
Choose one of the following Internship/Project Experience courses:	
CS 195/CNIT 195 - Software Development Practicum	3.00
CS 177 - Software Engineering	3.00
CS 198 - Industry Internship	1.00 - 4.00
CNIT 197 - Internship and Work Experience	1.00
CNIT 198 - Internship and Work Experience	2.00
Total:	1.00 - 4.00
Total:	9.00 - 12.00

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