

COMPUTER SCIENCE: SMARTPHONE APPLICATION DEVELOPMENT

Program code: CSAD-CC

Location: Norwalk

Program Description

This certificate prepares students to enter the fastest growing segment of the information technology application development marketplace. It includes basic programming skills, object-oriented programming techniques, an overview of current mobile platforms and device-specific advanced topics. Students completing the program will be able to create simple applications on a variety of devices and specialized programs on the device of their choice. Platforms currently offered include Apple iPhone and Google Android OS.

This program is not eligible for Federal Financial Aid.

Learning Outcomes

1. Plan, design, code, test, and debug solutions to programming problems using a variety of programming languages;
2. Gain understanding of fundamental object-oriented programming concepts, including encapsulation, inheritance and polymorphism;
3. Demonstrate an understanding of object-oriented programming principles through exams and lab exercises;
4. Compare and contrast mobile platforms, their tools, and the development process;
5. Install software development kits for each mobile platform;
6. Demonstrate understanding of the development cycle for mobile devices including building, testing, and deployment;
7. Create apps for Apple iOS and Google Android mobile devices;
8. Create cross-platform web applications for mobile devices; and
9. Test projects in proprietary emulators for each platform.

Certificate Requirements

Code	Title	Credits
Required Courses		
CSC 1201	Introduction to Programming	4
CSC 2213	Object Oriented Programming	4
CSC 2252	Programming Mobile Devices I	3
CSC 2253	Programming Mobile Devices II	3
Total Credits		14

A student may only earn one Associate Degree in this discipline. Students may earn only one degree but can earn additional certificates.

- Computer Science: Mobile Programming, AAS
- Computer Science: Relational Database Development Certificate
- Computer Science: Software Development
- Computer Science: Software Engineering, AAS
- Computer Science: Web Developer Certificate
- Computer Science: Web Development, AAS

- Computer Science: Computer Science Studies - CSCU Transfer Degree, AA