

Crafton Hills College
Certificate of Achievement
Programming
2013-2014

Student Name: _____

ID #: _____

Date: _____

Counselor: _____

The objective of this certificate is to provide students the knowledge and skills necessary for employment in entry-level positions in the field of computer programming or to continue to pursue a four-year degree in Computer Information Systems or Computer Science. The Programming Certificate indicates the student has acquired knowledge of various programming languages including basic language structures, syntax, debugging, and application development.

A student receiving a certificate in this field will be able to:

- Demonstrate the ability to write, compile, debug and execute well engineered and maintainable computer programs using a variety of programming languages that effectively meet the application requirements
- Demonstrate the ability to develop and apply systematic debugging and testing processes
- Demonstrate the ability to work collaboratively in a team environment
- Demonstrate the ability to explain and apply the necessary processes, tools and skills used in application development
- Demonstrate the ability to communicate effectively in technical and business environments

Certificate Requirements:

Students intending to earn a certificate from Crafton Hills College must complete no less than 50 percent of the courses required for the certificate in residence at Crafton Hills College and must earn a "C" or better in all coursework required as a part of the certificate.

Completion of the following 15.00-17.00 units qualifies the student for the Programming Certificate:

Required Courses:		Units	IP	Need	Grade
CIS 104	Object Oriented Programming with Visual Basic	3			
CIS 111	Web Page programming and Design	3			
CIS 113	Java Programming	3			
CIS 114 or CSCI 110	C++ Programming I or Introduction to Computer Science I	3-4			
CIS 116 or CSCI 120	C++ Programming II or Introduction to Computer Science II	3-4			
Total Required Units:		15-17			

Recommended Courses:		Units	IP	Need	Grade
CIS 117	Scripting	3			
Total Recommended Units:					