

DEGREES & CERTIFICATES

COMPUTER PROGRAMMING CERTIFICATE OF ACHIEVEMENT (CA)

About the Program

The Las Positas Computer Science Program offers courses that lead to a Certificate of Achievement in Computer Programming. The certificate prepares students for direct job entry into areas such as computer programming in multiple languages, software testing, and mobile application development. This program will also prepare students for the challenges of the every changing computer industry and help them prepare for the workforce.

Program Goals and Objectives

Computer Programming Certificate of Achievement is designed to prepare the students to enter the workforce prepared with the knowledge they need to acquire an entry level computer programming position. This program prepares students in analytical thinking, critical analysis, group collaboration, effective communication and the necessary skills to develop software applications in multiple computer languages to make them an asset in any software development organization.

Career Opportunities

Computer Programmer (C, C++, Java, Assembly Language), System/Unit/Integration Software Tester, Game Programming Intern, Software Information Developer

Program Outcomes

- Upon completion of the Certificate of Achievement in Computer Programming, students are able to professionally demonstrate the application of their skills in the development and testing of their solution to solve a specific computing project.
- Upon completion of the Certificate of Achievement in Computer Programming, students are able to professionally describe and apply their skills in the design of their solutions as well as alternative technologies or solutions to solve their specific computing project.

Learning and Career Pathway Maps

[View LPC Program Map](#)

Required Core: (17 Units)

CS 1 Computing Fundamentals I.....	4
CS 2 Computing Fundamentals II.....	4
CS 43 Professional Communications or	3
CIS 43 Professional Communications or	3
CNT 43 Professional Communications.....	3
CS 47 Capstone Project.....	3
CIS 60 Systems Analysis and Design.....	3

List A: Select Three (10-12 Units)

CS 16 Mobile Application Development - iPhone.....	3
CS 18 Mobile Application Development - Android.....	3
CS 20 Advanced Programming with Data Structures/C++.....	4
CS 21 Computer Organization and Assembly Language Programming.....	4
CS 31 Java Programming.....	4
CS 45 Database Programming.....	4