

Santa Monica College

Blockchain Developer

1. Program Goals and Objectives

In response to direction from our Advisory Board and in response to student and industry demands, we have developed this new certificate. This new certification capitalizes on our Cloud Computing program. Many tools are provided by the AWS and Azure platforms to make use of blockchain technologies. Many well-paying jobs are available for developers with these skills.

2. Catalog Description

Blockchain has always been synonymous with cryptocurrency, but its applications go far beyond financial transactions. Companies in every industry are finding value in understanding how to apply blockchain-based solutions to solve problems. In this certificate, students study the world of blockchain technology and the promise it holds. Students will learn how cryptocurrencies, like Bitcoin, make use of the blockchain to facilitate peer-to-peer digital transactions. Students will identify the problems blockchain technologies aim to solve as well as learn its underlying ability to facilitate a marketplace without traditional intermediaries, promoting widespread, transformational change. Students will design and code decentralized blockchain applications.

3. Program Requirements

Required Courses – 12 units

CS 79A : Introduction to Cloud Computing

CS 73A : Fundamentals of Computer Security

CS 76A : Cryptocurrency and Cryptoassets

CS 76B : Fundamentals of Blockchain

Elective Courses – 3 units – Choose 1:

CS 81 : Javascript Programming OR

CS 87B : Advanced Python Programming OR

CS 20A : Data Structures with C++ OR

CS 20B : Data Structures with Java

4. Master Planning

This certificate fulfills the need to provide students with an occupation with a living wage. The program draws students from our Computer Science and Cloud programs that may or may not be interested in transfer to a four-year university.

5. Enrollment and Completion Projections

100 students annually

6. Place of Program in Curriculum/Similar Program

This is a Certificate of Achievement.

7. Similar Programs at Other Colleges in Service Area

We are unaware of similar offerings with this particular focus at other local colleges

8. Transfer Preparation Information

Last Updated: 7/30/18

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Transfer Degrees Only: provide information on transfer preparation