

PROGRAM APPROVAL APPLICATION
NEW or SUBSTANTIAL CHANGE or LOCALLY APPROVED
(This application may not exceed 3 pages)

Fill In Form

Cyber Security Associate Certificate
 Proposed Program Title

Fall 2017
 Projected Program Start Date

Los Angeles Mission College (LAMC)
 College

Los Angeles Community College District
 District

Contact Information

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 Voting Member

President of LAMC
 Title

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 Phone Number

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 Email

Goal(s) of Program (Check all that apply):

- Career Technical Education (CTE) Transfer Other

Type of Program (Check all that apply):

- Certificate of Achievement 12-17 (or 17-27 quarter) units Certificate of Achievement 18+ semester (or 27+ quarter) units
 Associate of Science Degree Associate of Arts Degree

Reason for Approval Request (Check One):

- New Program Substantial Change Locally Approved

Program Information

0708.10 Recommended [Taxonomy of Program \(TOP\) Code](#)

15 units Required Units-Certificate

Written Form

1. Insert the description of the program as it will appear in the catalog. (See PCAH pp. 142 and 170)

The Certificate of Achievement in Cyber Security Associate provides students specific skills sets required to pass the Security+ Certificate. The program provides students with a comprehensive coverage of the information security concepts and industry best practices. A minimum grade of C is required in each course.

2. Provide a brief rationale for the program.

The Certificate of Achievement in Cyber Security Associate is a program designed not only for students desiring to continue their academic studies, but also for individuals wishing to develop the skills to enhance their current employment opportunities. The certificate can be beneficial to students looking to focus specifically on enhancing their Cyber Security skills. These skills can be valuable to employers, particularly small businesses,

looking to fill entry-level IT positions. The certificate can also be advantageous to Los Angeles Mission College, completing the set of required certificates to be a Network Administrator - A+, Network+ and Security+ and to increase student enrollment.

3. Summarize the Labor Market Information (LMI) and employment outlook (including citation for the source of the data) for students exiting the program. (See PCAH pp. 85-88, 136, 147, 148, 165, 168, and 176)

“The problem is that cybersecurity professionals—who combine broad technical skills with specific security expertise and an understanding of business risk—are hard to find. For instance, Cisco [estimates](#) that there are currently one million unfilled cybersecurity jobs worldwide, while industry giant Symantec [predicts](#) that by 2019 the number will be 1.5 million. Little wonder that the word “crisis” appears so often in articles on cybersecurity hiring, or that professionals in the field—finding themselves in such high demand—are able to command such high salaries.” Indeed.com 1/17/17

According to EMSI data, Information Security Analysts (SOC 15-1122) are projected to grow over 12.8% by 2026 in the Los Angeles/Orange County region. The median hourly wage is \$48.38/hour. Annual Openings are projected to be 116. Regional completions for 2015 are 4,820 for these same occupations, and while this computes to negative regional demand, there are multiple factors and industry reports (see above), that project occupations in these fields will be in high demand and that they are needed across industries. The LA Mission College Computer Science Information Technology Advisory Committee also gave its strong endorsement of the program.

4. List similar programs at other colleges in the Los Angeles and Orange County Region which may be adversely impacted. (There is space for 10 listings, if you need more, please contact laocrc@rscsd.edu)

College	Program	Who You Contacted	Outcome of Contact
Citrus Community College	AS, C	Dean of CTE James Lancaster	Approved
Cypress Community College	AS, C	Chair Ron Armale	Approved
Long Beach City College	AS, C	Chair Gene Carbonaro	Approved
Mt. San Antonio College	AS, C	Co-Chair Barry Andrews Co-Chair Vic Zamora	Approved
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

5. List all courses required for program completion, including core requirements, restricted electives and prerequisites. (There is space for 20 listings, if you need more, please contact laocrc@rscsd.edu). (See PCAH pp. 143 and 171)

Courses	Course Number	Course Title	Units
Preparation for A+ Certificate	Co Sci 453	A+ Certification Preparation	3
Preparation for Network+ Certificate	Co Sci 487	Networking	3
Principals of Information Security	Co Sci 483	Principles of Information Security	3
Cyber Security I	Co Sci 411	Cyber Security I	3

Preparation for Security+ Certificate

Co Sci 488

Security+ Certification Preparation

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6. Include any other information you would like to share.

Certificate recommended by the CSIT Advisory Committee.