

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

Fill In Form					
Cybersecurity Certificate of Achievement Proposed Program Title		Fall 2018 Projected Program Start Date			
Los Angeles City College College		Los Angeles Community College District District			
Contact Information					
Alex A. Davis		Dean, Academic Affairs, Office of EWD Education, LA City College			
Voting Member		Title			
323.953.4000 x2596 Phone Number		davisaa@lacitycollege.edu 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		ange Locally Approved			
Program Information					
0708.00 Recommended <u>Taxonomy of Pro</u>	Recommended <u>Taxonomy of Program (TOP) Code</u>				
66 or 67 Units for Major-Degree	Units for Major-Degree				
66 or 67 Total Units for Degree					
36 or 37 Required Units-Certificate - <u>Depends on which prerequisite is chosen</u>					
Written Form					

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

The Cybersecurity Certificate of Achievement as well as the Cybersecurity Associate of Science Degree prepare students for a career in a sector of technology that is growing rapidly and will continue to grow for the foreseeable future. This curriculum teaches students to recognize threats and procedures to be proactive against cybersecurity threats and/or respond to cybersecurity incidents, how to protect and defend against intrusions through the use of advanced techniques used by cybercriminals, and how to create innovative solutions to prevent hackers from stealing critical information or causing problems for computer networks. Students also learn about the ethics of security and hacking and the geo-political ramifications of cyber attacks. The Cybersecurity Certificate is comprised of a group of industry-recognized CompTIA certifications and computer



forensics and ethical hacking certification programs which will enhance a student's ability to pursue a career in cybersecurity. To earn a certificate, students must complete the required courses as listed with a minimum grade of a "C." At least 50% of all coursework must be completed at Los Angeles City College.

1. Provide a brief rationale for the program.

This is a single-level enhanced Cybersecurity Certificate and the first to be offered at Los Angeles City College. On its own, the Certificate will be achievable after three semesters. Enhanced cybersecurity programs are one of the fastest-growing CTE programs, and LACC strives to be a part of the growing network of colleges in Southern California offering a cybersecurity program. The Certificate of Achievement and Associate of Science Degree will draw students from across all socio-demographic and economic groups in a part of Los Angeles that has been underserved for years. The program gives students the chance to achieve professional-level certifications (CompTIA) while attaining the Cybersecurity Certificate.

2. 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)

SOC	Occupation	2016	2021	2016 -	2016 -	2016 -	Annual	Median
		Jobs	Jobs	2021	2021 %	2021	Openings	Hourly
				Change	Change	Openings		Earnings
15-	Information Security	2,031	2,128	97	5%	233	47	\$49.72
1122	Analysts							
15-	Computer User	18,500	19,378	878	5%	2,107	421	\$26.54
1151	Support Specialists							
15-	Computer Network	5,210	5,420	210	4%	554	111	\$34.24
1152	Support Specialists							

http://coeccc.net/supply-demand/

For Los Angeles County

3. 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@rsccd.edu)

College	Program	Who you contacted	Outcome
Cerritos College	Business CIS	Nick Real	
Citrus College	Cybersecurity Cert	Jim Lancaster	No issues
Cypress College	Dean, Career Technical Education	Dr. Steve Donley	No issues
Coastline Community College	Network Security Cert	Nancy Jones	
Fullerton Community College	Business and CIS	Dr. Douglas Benoit	No issues
Los Angeles Mission College	Cybersecurity Cert	Mark Hobbs	



Long Beach City College	Cybersecurity Cert	Michelle Grimes-Hillman
Mt San Antonio College	Cybersecurity Cert	Jemma Blake-Judd
Orange Coast College	Network Security Cert	Lisa Knuppel
Saddleback College	Information Security Cert	Anthony Teng
West Los Angeles College	Network and IS Security	Mark Pracher

Course Title	Course Number	Unit Value	
Intro to Computer Hardware	CO TECH 12	4	
A+ Cert Preparation	CO TECH 14	4	
Intro to Computer Networks	CO TECH 4	4	
Network+ Cert Prep	CO TECH 15	3	
Security+ Cert Prep	CO TECH 16	4	
Linux+ Cert Prep	CO TECH 18	4	
Intro to Computer Forensics	CO TECH 29	3	
Intro to Ethical Hacking	CO TECH 31	3	
Python Programming	CO SCI 124	4	
Beginning Visual Basic	CO SCI 108	3	prerequisite 1
Programming			
Introduction to Computer Systems	CO SCI 103	4	OR prerequisite 2
for MIS			
Cybersecurity Certificate Pathway	Required courses listed	36 or 37 units	Total units:36 or 37
	above		
Associate of Science Degree Pathway	General Education required	30 units	Total units: 66 or 67
	courses + courses above		

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

When I first developed the Security+ class for the CTEL Department at Los Angeles City College, I discovered that students of all demographic groups were interested in the class and remained engaged throughout the class and kept in touch with me afterward. Nearly every student who has completed my class in the last few years has requested more security classes. When I told past and present students about this Certificate program and AS Degree, they were enthusiastic. Now that we are moving forward, I see students planning their semesters and asking me when new classes will be offered and when. These students range from high school graduates to senior citizens.