

Program Approval Application

College in Los Angeles and Orange County LAOCRC

Cerritos College
Citrus College
Coastline Community College
Cypress College
East Los Angeles College
El Camino College
Fullerton College
Glendale Community College
Golden West College
Irvine Valley College
Long Beach City College
Los Angeles City College
Los Angeles Harbor College
Los Angeles Mission College
Los Angeles Pierce College
Los Angeles Southwest College
Los Angeles Trade-Technical College
Los Angeles Valley College
Mt. San Antonio College
Orange Coast College
Pasadena College
Rio Hondo College
Saddleback College
Santa Ana College
Santa Monica College
Santiago Canyon College
West Los Angeles College

PROGRAM APPROVAL APPLICATION

Overview

The program approval process outlined by the California Community College Chancellor's Office requires that all requests to add new programs or certificates and/or to make substantial changes to any existing college's inventory of Career Technical Education (CTE) programs include a recommendation from the Regional Consortia. Instructions and the application form for the regional consortia recommendation are posted on our website at laocrc.org.

The process for obtaining a recommendation from the Regional Consortia is intended to inform and engage our region in creating programs for the Los Angeles and Orange County colleges, and to foster a spirit of collaboration and coordination that results in viable choices for Career Technical Education (CTE) courses/programs across the region.

The Los Angeles and Orange County Voting Members should submit **Requests for Program Approval** and **Notice of Intent (separate template available for Notice of Intent)** by the deadlines below:

Deadlines for Program Approval and Notice of Intent Submissions

Voting Cycle	Application Deadline	Online Voting Window	LAOCCRC Meeting
September 2014	September 2, 2014	September 9-16, 2014*	September 18, 2014
October 2014	October 7, 2014	October 14-21, 2014*	October 23, 2014 (at CCCAOE)
November 2014	November 4, 2014	November 11-18, 2014*	November 20, 2014
December 2014	December 2, 2014	December 9-16, 2014*	December 18, 2014
January 2015	December 30, 2014	January 6-13, 2015*	January 15, 2015
February 2015	February 3, 2015	February 10-17, 2015*	February 19, 2015
March 2015	March 10, 2015	March 17-24, 2015*	March 26, 2015 (at CCCAOE)
April 2015	March 31, 2015	April 7-14, 2015*	April 16, 2015
May 2015	May 5, 2015	May 12-19, 2015*	May 21, 2015
June 2015	June 2, 2015	June 9-16, 2015*	June 18, 2015

***The Online Voting Windows opens at 8:00 a.m. on the first Tuesday of the Online Voting Window cycle and close at 5:00 p.m. on the following Tuesday.**

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

Fill In Form

Cybersecurity

Proposed Program Title

Cerritos College

College

Cerritos College

District

Spring 2016

Projected Program Start Date

Nick Real

Voting Member

Instructional Dean

Title

562-860-2451

Phone Number

yreal@cerritos.edu

E-mail Address

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

Career Technical Education (CTE)

Transfer

Other

Type of Program (Check all that apply):

A.S. Degree

A.A. Degree

Certificate of Achievement:

18+ semester (or 27+ quarter) units

12-18 semester (or 18-27 quarter) units

Reason for Approval Request: (Check One)

New Program

Substantial Change

Locally Approved

Program Information

Recommended Taxonomy of Program (TOP) Code 0799.00

Units for Major-Degree 34.5

Total Units for Degree 60

Required Units-Certificate 34.5

Written Form

1. Insert the description of the program as it will appear in the catalog.

Upon completion of the Cybersecurity Certificate of Achievement students will be able to use their newly learned skills to gain entry level jobs, use the certificate for professional growth, salary increases, job promotions or career changes in the area of information security/assurance. For academic students the certificate will be the first achievement in the path to an AA degree and transfer to a four-year college. The path being 1) Certificate of Completion, 2) Certificate of Achievement, 3) Associates of Arts degree, and 4) transfer to four-year College.

2. Provide a brief rationale for the program.

Cybersecurity or information security is an emerging and fast growing career path. There is an urgent demand by the government and private industries for cybersecurity professionals to counter the increasingly challenging security risks in cyber communications. The Computer and Information Sciences Department would like to participate in the development of such workforce desired by both the government and various industry sectors. Students graduating from the program will be equipped with the knowledge and skills to join the profession in the cybersecurity arena.

3. List all courses required for program completion, including core requirements, restricted electives and prerequisites. (Push Enter after each entry to begin a new line)

Courses	Course No.	Course Title	Units
Computer Programming Logic	CIS 103	Computer Programming Logic	3.5
Networking Fundamentals	CIS 170A	Networking Fundamentals	3.5
TCP/IP Fundamentals	CIS 170H	TCP/IP Fundamentals	3.0
Cisco Network Security	CIS 170I	Cisco Network Security	3.5
Cybersecurity Fundamentals	CIS 170L	Cybersecurity Fundamentals	3.5
Introduction to Ethical Hacking	CIS 170P	Introduction to Ethical Hacking	3.5
Computer and Digital Forensics	CIS 170R	Computer and Digital Forensics	3.5
Network Defense	CIS 170S	Network Defense	3.5
Microsoft Windows Server Administration	CIS 213F	Microsoft Windows Server Administration	3.5
Unix	CIS 214	Unix	3.5

4. Summarize the Labor Market Information and employment outlook (including citation of the source of the data) for students exiting the program.

Based on the data from the state of California’s Employment Development Department (Job Outlook for California Community College Occupational Education Programs, 2015), between 2012 and 2022, the job growth in the **Other Information Technology** category ranges from 9% in Los Angeles County to 21.4% in Orange County:

Top code: 0799.00 Other Information Technology

Area	Estimated Year Projected To	Employment Estimated	Employment Projected	Employment Change (Number)	Employment Change (Percent)	Annual Avg. Openings
Los Angeles County	2012 - 2022	9,880	10,770	890	9.0	245

Los Angeles County

Occupational Projections of Employment (also called "Outlook" or "Demand")

Area	Estimated Year - Projected Year	Employment Estimated	Employment Projected	Employment Change Number	Employment Change Percent	Annual Avg Opening
Orange County	2012 - 2022	4,340	5,270	930	21.4	161

Orange County

Reference: <http://www.labormarketinfo.edd.ca.gov/commcolleges/>

Additionally, based on the search on occupation projections in the State of California, the job growth for Information Security Analysts sees a dramatic increase of 40.2% statewide with 11,500 job openings. Meanwhile, Inland Empire and Orange County will see 35% and 43.5% job growth, respectively. Clearly it shows there's demand for the cybersecurity professionals.

Reference: <http://www.labormarketinfo.edd.ca.gov/aspdotnet/SupportPage/AllOccPrj.aspx?soccode=151122>

Information Security Analysts Estimated Employment and Projected Growth					
Geographic Area (Estimated Year- Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	8,200	11,500	3,300	40.2	1,300
Inland Empire Area (2012-2022)	200	270	70	35.0	30
Los Angeles County (2012-2022)	2,170	2,170		.0	340
Orange County (2012-2022)	460	660	200	43.5	70

- List similar programs at other colleges in the Los Angeles and Orange County Region which may be adversely impacted. (Push Enter after each entry to begin a new line)

College	Program	Who you Contacted	Outcome of Contact
Cypress College	Computer Information Systems	Steve Donley	No Objection
Long Beach Community College	Computer and Office Studies	Ken Starkman	No Objection
Los Angeles Southwest College	Computer Science - Information Technology	Rick Hodge	No Objection
Coastline Community College	Computer Service Technology	Nancy Jones	No Response
Orange Coast College	Computer Information Systems	Von Lawson	No Response
Saddleback College	Computer Information Management	Anthony Teng	No Response
West Los Angeles College	Computer Science	Mark Pracher	No Response
Mt. San Antonio College	Computer Information Systems	Jemma Blake-Judd	No Objection

- Include any other information you would like to share.

[Click here to enter text.](#)