

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

Fill In Form

CISCO NETWORKING ADMINISTRATION CERTIFICATE Proposed Program Title	FALL 2018 Projected Program Start Date
EL CAMINO COLLEGE College	EL CAMINO District

Contact Information

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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 Recommended [Taxonomy of Program \(TOP\) Code](#)
 _____ Units for Major-Degree
 _____ Total Units for Degree
 21-22 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 CISCO Networking Administration Certificate provides students with the skills and tools needed to install, configure and maintain the current state of the art internet based networking technologies according to the guidelines set forth by CISCO systems and CISCO Networking Academy. Students follow CISCO's approved lesson plans and learn on industry-standard hardware.

To earn the CISCO Networking Administration Certificate of Achievement, the required courses must be completed with a minimum grade of "B". At least 15 Computer Information Systems units must be completed at El Camino College.

2. Provide a brief rationale for the program.

The CISCO Certificate of Achievement is designed to prepare students with marketable technical skills through a comprehensive understanding of computer and end-device networking, design, and maintenance. This program equips both entry level candidates and seasoned professionals with the core tools needed for entering and advancing their careers, as well as preparing those students pursuing an AS degree or transferring to a four year program in Computer Information Systems with the technical competencies needed for success.

The CISCO Certified Networking Associate (CCNA) curriculum is currently taught at El Camino College, and is the foundation for all advanced CISCO certifications. The current El Camino CISCO program is a participating member of the Western Academy Support and Training Center (WASTC), which is funded by an SB 70 Grant from the California Community College Chancellor's Office (CCCCO). Completion of the ECC CISCO program not only positions the student for gainful employment opportunities, but also prepares them to sit for the CISCO Certified Network Associate (CCNA) exam (available through CISCO's third-party testing centers).

The prospect of offering the Certificate of Achievement was presented to the CIS Advisory Board, and received unanimous endorsement. The CIS Advisory Board was impressed that a student would be prepared to take and pass the CISCO industry certification exams as a result of completing the progression of CISCO courses at ECC.

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 Bureau of Labor Statistics predicts the 2014-2024 forecasted national job growth for all jobs is 7%. For the same time frame, jobs for Network and Computer Systems Administrators are projected to grow as fast as the average at 8% with median hourly salaries at \$37.41 <https://www.bls.gov/ooh/computer-and-information-technology/network-and-computer-systems-administrators.htm>, and for Computer Network Architects 9% with median hourly salaries at \$48.19. <https://www.bls.gov/ooh/computer-and-information-technology/computer-network-architects.htm>. California is the second highest state in the United States with the highest employment level for Network and Computer Systems Administrators (<https://www.bls.gov/oes/current/oes151142.htm#st>). and the Los Angeles-Long Beach-Glendale areas rank 4th

The California Labor Market growth is also robust. For Los Angeles county, 10 year growth (2014-2024), annual need, and wages for occupations targeted by this certificate are strong. Network and Computer Systems Administrators (SOC 15-1142) has the strongest growth, and is predicted to grow by 11.8% (1200 jobs) with a median hourly wage of \$40.34. Computer Network Architects (SOC 15-1143) are expected to grow by 17.4% (450 jobs), with a median hourly wage of \$58.52, and lastly, Computer Network Support Specialists (SOC 15-1152) are predicted to grow by 10.4% (470 jobs) with a median hourly wage of \$34.76 <http://www.labormarketinfo.edd.ca.gov/data/employment-projections.html>. In addition, the EDD predicts there will be 206 new jobs and 222 replacement jobs needed across these three occupations each year (2014-2024).

According to the Chancellors Office Data Mart, in 2015-2016, there were a total of 86 regional completions among the Los Angeles County Community Colleges in TOP code 0708(Computer Infrastructure and Support). With a projected 428 annual openings in Los Angeles County, this would result in a Net Annual Labor Demand of 342 jobs.

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@rscdd.edu)

College	Program	Who You Contacted	Outcome of Contact
Cerritos College	Network/Systems Administration Certificate of Achievement	Nick Real	Pending
Citrus College	Certificate Pending	Jim Lancaster	No issues
Glendale College	Computer Support Technician	Jan Swinton	Pending
LA Pierce College	Network Technology	Jose Luis Fernandez	Pending
Long Beach City College	Computer Network Technician	Michelle Grimes-Hillman	Pending
Mt. San Antonio College	CIS Professional Certificate in Networking	Jemma Blake-Judd	No Issues
West Los Angeles College	Computer Network Management	Mark Prache	Pending

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@rscdd.edu). (See PCAH pp. 143 and 171)

Courses	Course Number	Course Title	Units
Computer Information Systems	CIS 13	Computer Information Systems	3
Computer Information Systems	CIS 40	Personal Computer Support and Networking	3
Computer Information Systems	CIS 140	Data Communications CISCO 1	3
Computer Information Systems	CIS 141	Networking Micro Computers CISCO 2	3
Computer Information Systems	CIS 142	Implementing and Administrating Network Routers CISCO 3	3
Computer Information Systems	CIS 143	LAN and WAN Router Configurations CISCO 4	3
CHOOSE ONE OF THE FOLLOWING:			
Computer Information Systems	CIS 18	System Analysis and Design	3
Computer Information Systems	CIS 19	Internet, Social Networking, and the Web	3
Computer Information Systems	CIS 134	ASP.NET with C# Business Web programming	4
Computer Information Systems	CIS 11	Help Desk Operations	3
Computer Information Systems	CIS 28	Database Management using Microsoft Access	4

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

Instead of using a quick-hit approach to CCNA training, ECC uses a classroom/lab approach, where students meet with a trained instructor and then practice hands on labs.