

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

Fill In Form

Local Area Network: CISCO

Proposed Program Title

Irvine Valley College

College

South Orange County Community College District

District

8/17/2015

Projected Program Start Date

Corine Doughty

Voting Member

Dean, Instruction, Economic & Workforce

Development

Title

949-282-2730

Phone Number

cdoughty@ivc.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 0708

Units for Major-Degree 24

Total Units for Degree 61-63

Required Units-Certificate 24

Written Form

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

The Cisco CCNA (Cisco Certified Network Associate) is one of the most demanded certifications in networking. Cisco has designed a four-course program which leads to this certification. Students may cover the entire track at IVC over four semesters; or they may take the college's accelerated program, completing two semesters' worth of material in one semester, in order to acquire the CCNA in one academic year. The program is designed to meet the needs of students who want 1) to obtain entry-level employment, 2) to advance in their current positions, or 3) to change careers. This program enables students to demonstrate specialization in areas such as computer technical support and networking. After completing the program, the actual CCNA Certification Exam is given by a third party. Potential careers include entry-level positions in such capacities as computer network analysts, computer network administrators, or computer network technicians.

2. Provide a brief rationale for the program.

This is an existing AS Degree/Certificate of Achievement. The program was revised to add two additional courses, CIM261 (soon to be renumbered as CIM161) and CIM108 based on advisory committee recommendations at the December 12, 2014, meeting. Some courses were also renumbered (i.e. CIM 206.1 is now 106). The program goal was also changed to CTE (does not transfer) due to the recent changes to the Program and Course Approval Handbook (PCAH 2013) that require that 51% of the courses in the program be transferrable. Since the Local Area Networks: Cisco Associate of Science Degree did not meet that new 51% requirement, this proposal is

Revised Wednesday, February 04, 2015

considered a **substantial** change to an existing program. CTE (non-transfer) degrees are not required to meet the new 51% transfer course rule. This certification program is designed to meet the needs of students who want 1) to obtain entry-level employment, 2) to advance in their current positions, or 3) to change careers. This is a rapidly growing field and local employers need trained workers.

- 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
Core	CIM106	A+ Hardware Concepts	3
Core	CIM108	A+ Operating Systems Preparation	3
Core	CIM160	Network+	3
Core	CIM161	Linux+	3
Core	CIM263.1	CCNA Internetworking Technologies I	3
Core	CIM263.2	CCNA Internetworking Technologies II	3
Core	CIM263.3	CCNA Internetworking Technologies III	3
Core	CIM263.4	CCNA Internetworking Technologies IV	3

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

Potential Careers

Students may join as entry-level:

- Network and Computer Systems Administrators
- Computer Systems Analyst
- Computer System Architect
- Information Security Analysts

Employment Projections

- Employment is projected to grow much faster than the average for all occupations and add 286,600 new jobs over the 2008-18 decade.
- Excellent job prospects are expected.
- Workers can enter this field with many different levels of formal education, but relevant computer skills are always needed.

Source: U.S. Department of Labor Bureau of Labor Statistics

In California from 2010 through 2020, the California Employment Development Department (EDD) projects 52,500 openings in the area of Information Security Analysts, Web Developers, and Computer Network positions in the state. This represents a 24.7% increase in openings in a 10-year period or 10,400 new additional openings. In addition, in Orange County, three of the top 10 jobs, including number one, are in Information Technology (IT) and provide high salaries and abundant benefits. The predicted job-listing leader is Network Systems and Data Communications Analysts. In the Santa Ana-Anaheim-Irvine Metro area alone, it is anticipated that there will be 164 annual jobs in the network/computer systems area. After deducting the average annual completers

California Community Colleges Chancellor's Office
 Management Information Systems Data Mart

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You are here: Data Mart > Outcomes > Program Awards Summary

Family & Staff

Program Awards Summary Report - Parameter Selection Area

Select State-District-College: Districtwide Search
 Select District-College: Ctrus CCD;Coast CCD;Rand
 Select Academic Year: Annual 2013-2014
 Select Award Type: Chancellor's Office Approve

Select Program Type: 070810

View Report

Program Awards Summary for Special Population/Group, please click here.

Export To: Excel | CSV | Text

Records Per Page: 10

Simple Layout | Advanced Layout

Program Awards Summary Report - Data & Format Area

Report Area	Annual 2013-2014 Award Count
Coast CCD	44
South Orange County CCD	21

(SOCCCD, Rancho Santiago, Coast, etc.) 65, a net of approximately 101 annual jobs needing to be filled, and the field is growing rapidly.

		2010-2020 Occupational Employment Projections Santa Ana-Anaheim-Irvine Metropolitan Division (Orange County)											
SOC Code*	Occupational Title	Annual Average Employment		Employment Change		Average Annual Job Openings			2012 First Quarter Wages [5]		Education and Training Levels [7]		
		2010	2020	Numerical [1]	Percent	New Jobs [2]	Replacement Needs [3]	Total Jobs [4]	Median Hourly	Median Annual	Entry Level Education	Work Experience	On-the-Job Training
		00-0000	Total, All Occupations	1,486,900	1,684,000	197,100	13.3	20,304	35,132	55,436	\$18.57	\$38,628	
15-0000	Computer and Mathematical Occupations	44,530	53,050	8,520	19.1	852	780	1,632	\$40.25	\$83,707			
15-1000	Computer Specialists	43,390	51,770	8,380	19.3	838	728	1,566	N/A	N/A			
15-1121	Computer Systems Analysts	4,980	5,900	920	18.5	92	93	185	\$40.55	\$84,357	3	None	None
15-1131	Computer Programmers	3,800	4,130	330	8.7	33	88	121	\$36.60	\$76,140	3	None	None
15-1132	Software Developers, Applications	8,050	9,630	1,580	19.6	158	84	242	\$46.83	\$97,406	3	None	None
15-1133	Software Developers, Systems Software Network and Computer Systems	8,200	10,390	2,190	26.7	219	85	304	\$52.47	\$109,143	3	None	None
15-1142	Administrators	4,070	5,020	950	23.3	95	69	164	\$37.06	\$77,075	3	None	None
15-1150*	Computer Support Specialists	7,600	8,650	1,050	13.8	105	200	305	\$27.76	\$57,740	6	None	MT OUT
15-1179*	Information Security Analysts, Web Developers, and Computer Network Architects	3,710	4,450	740	19.9	74	55	129	\$37.42	\$77,841	3	1-5 years	None
15-1799*	Computer Occupations, All Other	1,570	1,790	230	14.6	22	29	51	\$38.57	\$80,220	3	None	None
15-2000	Mathematical Science Occupations	1,140	1,290	150	13.2	15	52	67	N/A	N/A			
15-2011	Actuaries	270	330	60	22.2	6	16	22	\$48.26	\$100,383	3	None	LT OUT
15-2031	Operations Research Analysts	580	640	60	10.3	6	19	25	\$39.17	\$81,481	3	None	None
15-2041	Statisticians	260	280	30	11.5	3	15	18	\$41.84	\$87,025	2	None	None

http://www.bls.gov/emp/ep_education_training_system.htm

Sources: California Employment Development Department, Labor Market Information Division
 Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections

It is also important to note that the California Community College Economic and Workforce Development Taskforce has put together the first ever statewide community college organization of education workforce professionals that are focused upon the need for trained Information Communications Technologies workers, headed by Steve Wright, Director & Sector Navigator ICT-Digital Media.

Source: http://www.cccewd.net/initiative_iima4biz.cfm

5. 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
Saddleback College	Network Administrator	Joyce Quade, CIM Chair	no conflict
Cypress College	Computer Networking	Ben Izadi, Professor	no conflict
Coastline College	Computer Networking	Nancy Jones, Dean	no response
Cerritos College	Computer Networking	Phuong Nguyen, Chair	no conflict
Citrus College	Computer Networking	James Lancaster, Dean	no response
El Camino College	CISCO Networking Administration	Virginia Rapp, Dean	no response
Fullerton College	Networking	Scott McKenzie, Dean	no conflict
Orange Coast College	Network Professional	Douglas R. Benoit, Dean	no response
Santa Ana College		Dena Montiel, Chair	no response

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

Because the Local Area Networks (Cisco) program has been offered in excess of 27 years at Irvine Valley College, and because labor market data indicates this occupation ranks among those with the largest number of job openings, we do not foresee a situation where schools are competing for students in this program.