

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

Fill In Form

Computer Information Technology – Network
 Administrator
 Proposed Program Title

Fall 2017
 Projected Program Start Date

Rio Hondo
 College

Rio Hondo
 District

Contact Information

Bruce Noble
 Voting Member

Applied Technology / DN – EC&U-LA
 Title

562-463-7354
 Phone Number

Bruce.noble@riohondo.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 Substantial Change Locally Approved

Program Information

070810 Recommended [Taxonomy of Program \(TOP\) Code](#) Computer Networking
 34 Units Units for Major-Degree
 60 Units Total Units for Degree
 34 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)

This curriculum is designed to prepare students for employment in Computer Information Technology - Network Administrator. The Courses needed for the degree are designed for those wish to pursue a business leadership career in Information Technology as a Network Administrator. Students that successfully complete the CIT – Network Administrator program will be able to design, install, operate, maintain, troubleshoot and maintain

system security. The program prepares the student to pass the *CISCO ICND-1, ICND-2* and *CompTIA Security* examinations.

2. Provide a brief rationale for the program.

The Associate of Science Degree in Computer Information Technology - Network Administrator is designed to prepare students for employment in computer information technology as Network Administrators. Many of the courses in the Computer Information Technology - Network Administrator degree are transferable to local colleges and universities in the California State University system.

Specific Objectives of Degree:

- To prepare students for employment in the computer information technology field as network administrators with emphasis on Cisco® networking devices.
- To offer students experience in designing, installing, and monitoring enterprise computer networks.
- To prepare students interested in transferring to colleges and universities in the California State University system

This program will offer additional degrees available to our students which will increase the number of degree completion and university transfer. This program is also focused on careers that require Associate degrees to provide our students a competitive advantage in the Information Technology field. This program also targets job opportunities that are expected to grow in California. Network and Computer System Administrator positions are expected to grow by more than 27% from 2010 to 2020 (11% between 2015-2020) as indicated in the State of California Employment Development Department website. Rio Hondo graduates will be prepared to fill expected employment openings and contribute to our region’s economic future.

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)

LMI DATA

| SOC | Occupation | 2015 Jobs | 2020 Jobs | 2015 - 2020 Change | 2015 - 2020 % Change | Annual Openings | Entry Hourly Earnings | Median Hourly Earnings |
|---------|---|-----------|-----------|--------------------|----------------------|-----------------|-----------------------|------------------------|
| 15-1122 | Computer Systems Analysts | 18,318 | 20,331 | 2,013 | 11% | 657 | \$ 25.11 | \$ 42.45 |
| 15-1142 | Network and Computer Systems Administrators | 10,499 | 11,019 | 520 | 5% | 251 | \$ 23.25 | \$ 38.22 |

Los Angeles County, Orange County, 2015 – 2020 Datarun 2016.2 – QCEW Employees, Non-QCEW Employees, and Self-Employed

COMPLETER DATA

| TOP6 - Program Title | 2012-13 | 2013-14 | 2014-15 | Latest Available 3 Yr Avg* |
|--|---------|---------|---------|----------------------------|
| 070800 - Computer Infrastructure and Support | 30 | 21 | 22 | 24 |
| 070810 - Computer Networking | 78 | 79 | 86 | 81 |
| Grand Total | 108 | 100 | 108 | 105 |

Community College Program Awards:

Community college data was compiled using the California Community Colleges Chancellor’s Office MIS Data Mart program award queries. The Data Mart provides information about students, courses, student services, outcomes and faculty and staff. The purpose of the Data Mart is to answer the questions of administrators, educators, parents, students, state leaders, and professional organizations.

<http://datamart.cccco.edu>

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 |
|--------------------------|---|-------------------|---------------------------|
| Cerritos College | C&I Sciences Networks / System Administration | Nick Real | Email No Response 11-3-16 |
| Citrus College | Information Technology | James Lancaster | Email No Response 11-3-16 |
| Coastline College | | Nancy Jones | Email No Response 11-3-16 |
| Cypress College | Cisco Networking | Steve Donley | Email No Response 11-3-16 |
| El Camino College | | Virginia Rapp | Email No Response 11-3-16 |
| Glendale College | UNIX System Administrator | Jan Swinton | Email No Response 11-3-16 |
| Irvine Valley College | CISCO Local Networks | Corine Doughty | Email No Response 11-3-16 |
| LA Pierce College | Networking/Routing Technology | Tom Vessella | Email No Response 11-3-16 |
| Long Beach City College | ITC Science-Networking | Mollie Smith | Email No Response 11-3-16 |
| Mt San Antonio College | Computer Programmer-Telecommunications | Jemma Blake-Judd | Email No Response 11-3-16 |
| Pasadena City College | | Salomon Davila | Email No Response 11-3-16 |
| Saddleback College | Network Administrator | Anthony Teng | Email No Response 11-3-16 |
| Santa Monica College | | Patricia Ramos | Email No Response 11-3-16 |
| Santiago Canyon College | | Von Larson | Email No Response 11-3-16 |
| West Los Angeles College | Network Management | Mark Pracher | Email No Response 11-3-16 |

5. List all courses required for program completion, including core requirements, restricted electives and prerequisites.

To acquire the Associate of Science Degree in Computer Information Technology -Network Administrator, it is necessary to complete the following courses with a grade of "C" or better

| Courses | Course Number | Course Title | Units |
|----------|---------------|-------------------------------------|-------|
| REQUIRED | ACCT 90 | Introduction to Accounting | 3 |
| | MGMT 101 | Introduction to Business | 3 |
| | MGMT 108 | Business Communications | 3 |
| | CIT 101 | Introduction to Information Systems | 3 |
| | CIT 180 | PC Maintenance – A+ Certification | 4 |
| | CIT 192 | Network Security I | 3 |
| | CIT 194 | Network Security II | 3 |
| | CIT 210 | Cisco Networking I | 3 |
| | CIT 211 | Cisco Networking II | 3 |
| | CIT 212 | Cisco Networking III | 3 |
| | CIT 213 | Cisco Networking IV | 3 |

6. Include any other information you would like to share. The program includes many non-technical courses as requirements. Students successfully completing this program will have taken courses in accounting and management. These courses will provide these students a well-rounded instruction not only of technology, but how technology can impact business decisions. Also, Computer Information Technology students can add to the dynamic of these programs by providing a computer technology view to accounting and management.