



21250 Stevens Creek Blvd.
Cupertino, CA 95014
408-864-5678
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Academic Year
2016 - 2017

Computer Information Systems
Network Administration

Business, Computer Sciences and
Applied Technologies Division
Bldg. L1, Room L14
408-864-8797

Counseling and Advising Center
Student and Community
Services Bldg., 2nd Fl.
408-864-5400

Please visit the Counseling Center to apply for degrees and for academic planning assistance.

Certificate of Achievement Requirements

A minimum "C" grade in each major course.
Note: A maximum of six (6) quarter units may be transferred from other academic institutions.

Certificate of Achievement-Advanced Requirements

1. A minimum "C" grade in each major course.
2. Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT 1A or EWRT 1AH or ESL 5 and eligibility for MATH 114.
Note: A maximum of 18 quarter units may be transferred from other academic institutions.

A.A./A.S. Degree Requirements

1. Completion of all General Education (GE) requirements (31-42 quarter units) for the A.A./A.S. degree. GE units must be completed with a minimum 2.0 GPA ("C" average).
2. Completion of all major requirements. Each major course must be completed with a minimum "C" grade.
Major courses can also be used to satisfy GE requirements (except for Liberal Arts degrees).
Note: A maximum of 22 quarter units from other academic institutions may be applied toward the major.
3. Completion of a minimum of 90 degree-applicable quarter units (GE and major units included). All De Anza courses must be completed with a minimum 2.0 GPA ("C" average). All De Anza courses combined with courses transferred from other academic institutions must be completed with a minimum 2.0 GPA ("C" average).
Note: A minimum of 24 quarter units must be earned at De Anza College.

Major courses for certificates and degrees must be completed with a letter grade unless a particular course is only offered on a pass/no-pass basis.

Network Administration

Certificate of Achievement

This Certificate of Achievement offers studies in overseeing and maintaining Windows systems as part of a network enterprise. Students become proficient in running administrative processes on a Windows operating system. Focus is placed on organization, security, and upkeep decisions as part of a larger business environment.

Student Learning Outcomes - upon completion, students will be able to:

- identify computer hardware and networking components in the context of micro computers and various types of network operating systems, architectures and protocols.
- develop and present a business improvement plan using the business decision making model and utilizing software applications in word processing, spreadsheets, or databases.

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 4	Computer Literacy	4.5
CIS 66	Introduction to Data Communication and Networking	5
CIS 67A	Local Area Networks	4
CIS 108	Personal Computer Security Basics	4.5
CIS 170F	Windows Administration	4.5
Total Units Required		22.5

Network Administration

Certificate of Achievement-Advanced

A.A. Degree

This Certificate of Achievement-Advanced and A.A. degree offers studies in overseeing and maintaining Windows systems as part of a network enterprise. Students become proficient in running administrative processes on a Windows operating system. Focus is placed on organization, security, and upkeep decisions as part of a larger business environment. It offers training in programming, network management, UNIX and Perl to aid in understanding more complex networking problems that occur in business enterprises.

Student Learning Outcomes - upon completion, students will be able to:

- use UNIX/LINUX utilities and shell features for file manipulation and communication.
- create algorithms and code, document, debug, and test shell scripts that interact with the UNIX/LINUX OS.
- create algorithms to solve introductory-level problems using C programming and shell scripting or Perl languages.
- identify networking components and protocols in the context of architectures and technologies for LAN, WAN and Internet networks.

Certificate of Achievement-Advanced

1. Meet the requirements for this certificate level.
2. Complete the following.

CIS 18A	Introduction to UNIX/LINUX	4.5
CIS 22A	Beginning Programming Methodologies in C++	4.5
CIS 22B	Intermediate Programming Methodologies in C++	4.5
or CIS 22BH	Intermediate Programming Methodologies in C++ - HONORS	4.5
CIS 66	Introduction to Data Communication and Networking	5
CIS 67A	Local Area Networks	4
CIS 67B	Introduction to Wide Area Networking	4
CIS 75A	Internet Concepts and TCP/IP Protocols	5

Complete one (1) course: 4.5

CIS 18B Advanced UNIX/LINUX (4.5)

CIS 33A Programming in Perl (4.5)

Complete one (1) course: 4.5-5

CIS 31 Operating System Concepts (5)

CIS 170F Windows Administration (4.5)

Total Units Required 40.5-41

Check with the CIS department about the recommended sequence for completing the above courses.

A.A. Degree

Major Complete the Cert. of Achievement-
Advanced requirements 40.5-41

GE General Education (31-42 units)

Electives Elective courses required when major
units plus GE units total is less than 90

Total Units Required 90

Check with the CIS department about the recommended sequence for completing the above courses.