

Academic Year

2011 - 2012

Computer Information Systems

Network Design and Administration

CIS Coordinator 408-864-8877 Bldg. F5 Rm. F5 I i Business & Computer Systems Division Bldg. L1 Rm. L14 408-864-8797 Counseling Center Student & Community Services Bldg. 2nd Fl. 408-864-5400 Career Services Info. Student & Community Services Bldg. 2nd Fl. 408-864-5400

21250 Stevens Creek Blvd. Cupertino, CA 95014 408-864-5678 www.deanza.edu

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

Certificate of Achievement Level 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 Level Requirements

I. A minimum "C" grade in each major course.

 Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT IA 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

- 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).
- 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 program 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.

Complete:

Complete:			
CAOS 90GA*	Computer Literacy I (PC)	2	
* Based on previous experience or knowledge, student may substitute another CAOS course of equal or greater unit value with departmental approval.			
Complete one (1) course from:			
CAOS 102L	Microsoft Windows I (Windows XP) (I)		
CAOS 102M	Microsoft Windows I (Windows Vista) (1)		
Complete the following:			
CIS 108	Personal Computer Security Basics or CAOS 108	4	
CIS 66	Intro. to Data Communication & Networking	5	
CIS 3	Business Information Systems	4.5	
CIS 170F	Windows 7 Administration	4.5	
	Total Units Required	.21	

Network AdministrationCertificate of Achievement-Advanced A.A. Degree

This achievement-advanced certificate and degree program 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. In addition, the Achievement-Advanced certificate 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

- I. Meet the requirements for this certificate level.
- 2. Complete the following.

CIS 15AG	Intro. to Computer Programming Using C	4.5
CIS 15BG	Intermediate Problem Solving in C	4.5
CIS 18A	Introduction to UNIX/LINUX	4.5
CIS 66	Intro. to Data Communication & 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 from: 4.5 CIS 18B Advanced UNIX/LINUX (4.5) Programming in PERL (4.5) CIS 33A Complete one (1) course from: 4.5-5 CIS 31 CIS 170F Operating System Concepts (5) Windows 7 Administration (4.5) Total Units Required . . . `. . '. 40.5-41 Recommended Course Sequence 1st Qtr 2nd Qtr 3rd Qtr 4th Qtr CIS 15AG CIS 15BG CIS 18B or 33A CIS 67B CIS 75A CIS 18A CIS 66 CIS 67A (CIS 170F) (CIS 31)

A.A. Degree

Meet the A.A./A.S. degree requirements.

Complete the course requirements for the Network Administration Major

Cert. of Achievement-Advanced 40.5-41 units

GE General Education (31-42 units) Elective courses req'd. when major units plus GE units total is less than 90 **Electives**

Total Units Required 90 units

Recommended Course Sequence

1st Qtr 2nd Qtr 3rd Qtr 4th Qtr 5th Qtr 6th Qtr CIS 15AG CIS 15BG CIS 18B or 33A CIS 67A (CIS 170F)

CAOS 151G CIS 18A CIS 66 CIS 67B or (CIS 31) CIS 75A