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Student & Community
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Career Services Info.
Student & Community
Services Bldg. 2nd Fl.
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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

1. A minimum "C" grade in each major course.
2. Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT 1A 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 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.

CIS 94	Computer Literacy	4.5
CIS 108	Personal Computer Security Basics	4
CIS 66	Intro. to Data Communication & Networking	5
CIS 67A	Local Area Networks	4
CIS 170F	Windows 7 Administration	4.5
	Total Units Required	22

Network Administration

Certificate 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

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

Complete both CIS 15AG and 15BG, or both		
CIS 22A and CIS 22B.		9
CIS 15AG	Intro. to Computer Programming Using C (4.5)	
CIS 15BG	Intermediate Problem Solving in C (4.5)	
or		
CIS 22A	Beginning Programming Methodologies in C++ (4.5)	
CIS 22B	Intermediate Programming Methodologies in C++ (4.5)	

Complete the following courses:		
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)	
CIS 33A	Programming in PERL (4.5)	

Complete one (1) course from:		4.5-5
CIS 31	Operating System Concepts (5)	
CIS 170F	Windows 7 Administration (4.5)	
Total Units Required		40.5-41

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

* Based on previous experience or knowledge, student may substitute another course of equal or greater unit value with departmental approval.

A.A. Degree

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

Major	Complete the course requirements for the Network Administration Cert. of Achievement-Advanced	40.5-41 units
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 units

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