



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

Academic Year
2011 - 2012

Computer Information Systems Computer Systems Security

CIS Coordinator
408-864-8877
Bldg. F5 Rm. F511

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

Skills Certificate (visit Department for assistance/to apply)

A passing grade ("C" or better/"P") in each required course.
Note: each course must be completed at De Anza College.

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 (visit Counseling for assistance/to apply)

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.

Home/Small Business Computer Security Skills Certificate

Skills Certificates (programs requiring fewer than 18 units) are issued by the individual departments and are not notated on official college transcripts. Please contact the department directly for assistance and to apply for Skills Certificates.

Students pursuing this certificate receive hands-on experience with fundamental computer security concepts and learn skills to troubleshoot and prevent computer security problems. According to the U.S. Department of Labor projected job openings for Computer Security Specialists through 2018 will grow 20%.

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

- implement a computer security system for a home or small business using their acquired knowledge of computers, operating systems, and computer security principles and acquired forensics skills.

Complete each required course at De Anza College with a passing grade ("C" or better/"P").

Prerequisites/Corequisites

Complete:		2
CAOS 90GA*	Computer Literacy I (PC) (2)	
Complete one (1) course from:		1
CAOS 102M	Microsoft Windows I (Windows Vista) (1)	
CAOS 102N	Microsoft Windows I (Windows 7) (1)	
Requirements		
CIS 108	Personal Computer Security Basics or CAOS 108	4
CIS 170F	Windows 7 Administration	4.5
CIS 161	Computer Forensics or CAOS 161	4
Total Units Required		15.5

*To substitute this course based on previous knowledge or experience, go to www.caos.deanza.edu/substitute.

Computer Crime Investigation (Forensics) and Security

Certificate of Achievement

Students pursuing this certificate receive hands-on experience with computer forensics concepts and learn computer crime investigation skills. According to the U.S. Department of Labor projected job openings for Computer Security Specialists through 2018 will grow 20%.

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

- implement a computer forensics evaluation using computer forensics tools and knowledge of computers, operating systems and computer security.

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

CAOS 90GA*	Computer Literacy I (PC)	2
ADMJ 75	Principles & Procedures of the Justice System	4
CIS 31	Operating System Concepts	5
CIS 170F	Windows 7 Administration	4.5
CIS 108	Personal Computer Security Basics or CAOS 108	4
CIS 161	Computer Forensics or CAOS 161	4
Total Units Required		23.5

*To substitute this course based on previous knowledge or experience, go to www.caos.deanza.edu/substitute.

Enterprise Security Professional Certificate of Achievement[†]

This certificate program prepares students to become Enterprise Security Technicians in a networking environment. In the program students learn network security basics, security policies and procedures, Network Monitoring, and Risk Analysis and Assessment based on Network Security.

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

- describe network components, protocols, architectures and the application of current communication and networking technologies.
- define properties of all modern network types.
- detect and stop security breaches in network and application layers.
- help organizations increase awareness of security policies and procedures.

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

Prerequisites/Corequisites

CIS 66*	Intro. to Data Communication & Networking	5
CIS 75A*	Internet Concepts and TCP/IP Protocols	5

Requirements

CIS 108	Personal Computer Security Basics or CAOS 108	4
CIS 76	Introduction to Network Security	4
CIS 75C	Enterprise Security Threats Management	4.5
CIS 75D	Enterprise Security Policy Management	3
Total Units Required		25.5

*To substitute this course based on previous knowledge or experience, go to www.caos.deanza.edu/substitute.

Enterprise Security Professional Certificate of Achievement-Advanced

This certificate program prepares students to become Enterprise Security Technicians in a networking environment. In this program students learn network security basics, emergency response planning, internet protocols, and more advanced-level security policies and procedures, Network Monitoring, and Risk Analysis and Assessment based on Network Security.

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

- describe network components, protocols, architectures and the application of current communication and networking technologies.
- define properties of all modern network types.
- detect and stop security breaches in network and application layers.
- help organizations increase awareness of security policies and procedures.

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

Prerequisites/Corequisites

CIS 66*	Intro. to Data Communication & Networking	5
CIS 75A*	Internet Concepts and TCP/IP Protocols	5

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

Requirements

CIS 75C	Enterprise Security Threats Management	4.5
CIS 75D	Enterprise Security Policy Management	3
CIS 75E	Enterprise Emergency Response Planning	2
CIS 76	Introduction to Network Security	4
CIS 108	Personal Computer Security Basics or CAOS 108	4
CIS 161	Computer Forensics or CAOS 161	4
CIS 165	Security+ (Network Security Fundamentals) or CAOS 165	4
CIS 170F	Windows 7 Administration	4.5
Total Units Required		40

Enterprise Security Professional

A.A. Degree

The Associate Degree program offers students the opportunity to study information security principles and theories that focus on asset protection. In this program students learn network security basics, security policies and procedures, Network Monitoring, and Risk Analysis and Assessment based on Network Security.

Students in this program can pursue either a general course of study or a concentration in information security. Graduates find employment in general public or private management, federal or local government civil service, military service, law enforcement, and private security.

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

- describe network components, protocols, architectures and the application of current communication and networking technologies.
- define properties of all modern network types.
- determine, at a more advanced level, how to detect and stop security breaches in network and application layer.
- help organizations increase awareness of security policies and procedures.

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

Major	Complete the course requirements for the Enterprise Security Professional Cert. of Achievement-Advanced	40 units
GE	General Education (31-42 units)	
Electives	Elective courses req'd. when major units plus GE units total is less than 90	
Total Units Required		90 units