De Anza College

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

Academic Year

2022 - 2023

Computer Information Systems

Cybersecurity

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

Find your counselor at
deanza.edu/our-counselors

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

Certificate of Achievement Requirements
- Completion of all major courses with a C grade or higher.

Note: A maximum of six quarter units may be transferred from other academic institutions.

Certificate of Achievement-Advanced Requirements
- Completion of all major courses with a C grade or higher.

- Demonstrated proficiency in English and mathematics as evidenced by eligibility for EWRT 1A, EWRT 1AH, EWRT 1AS with EWRT 1AT, 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 (32-43 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 courses with a C grade or higher. 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.

▼ The Certificate of Achievement in Cybersecurity can be earned by taking all required courses online. Some online courses may require on-campus participation in meetings, class events or exams, as detailed in the quarterly class listings.

Cybersecurity
Certificate of Achievement
This Certificate of Achievement prepares students to become cybersecurity technicians in a networking environment. In this program, students learn network security basics, security policies and procedures, network monitoring and risk analysis and assessment based on network security.

Program 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.

Prerequisite/Corequisite:		**4.5**
CIS 108	Personal Computer Security Basics	4.5

Requirements:		**13.5**
CIS 18A	Introduction to Unix/Linux	4.5
CIS 46	Fundamentals of Digital Security	4.5
CIS 102	Ethical Hacking	4.5

Complete one course:		**5**
CIS 45A*	Internet Concepts and TCP/IP Protocols (5)	
CIS 66*	Introduction to Data Communication and Networking (5)	
	Total Units Required, Including Prerequisite	**23**

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

▼ The Certificate of Achievement-Advanced in Cybersecurity can be earned by taking all required courses online. Some online courses may require on-campus participation in meetings, class events or exams, as detailed in the quarterly class listings.

Cybersecurity
Certificate of Achievement-Advanced
This Certificate of Achievement-Advanced prepares students to become cybersecurity 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.

Program 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.

Prerequisite/Corequisite:		4.5
CIS 108	Personal Computer Security Basics	4.5

Requirements:		18
CIS 18A	Introduction to Unix/Linux	4.5
CIS 46	Fundamentals of Digital Security	4.5
CIS 102	Ethical Hacking	4.5
CIS 170F	Windows Administration	4.5

Complete one course:		5
CIS 45A*	Internet Concepts and TCP/IP Protocols (5)	
CIS 66*	Introduction to Data Communication and Networking (5)	

Complete one course:		4.5
CIS 104	Digital Forensics and Hacking Investigation (4.5)	
CIS 105	Cloud Security Fundamentals (4.5)	
	Total Units Required, Including Prerequisite	**32**

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

▼ The Associate in Arts in Cybersecurity can be earned by taking all required courses online. Some online courses may require on-campus participation in meetings, class events or exams, as detailed in the quarterly class listings.

Cybersecurity
A.A. Degree

The A.A. 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. Graduates find employment in general public or private management, federal or local government civil service, military service, law enforcement and private security.

Program 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

Major	*Complete the Certificate of Achievement-Advanced requirements*	*32*
GE	*General Education (32-43 units)*	
Electives	*Elective courses required when the major units plus GE units total is less than 90 units*	
	Total Units Required	**90**

Information Technology Technical Support
Certificate of Achievement

Students earning the Information Technology Technical Support Certificate are able to apply fundamental concepts of IT support including networking, operating systems, system administration, troubleshooting and customer service, IT automation, and network security. Students upon completing this program are prepared to fill entry-level positions in IT support or continue their education in the field of technology. This program also prepares the student for the CompTIA A+ exams. Students earning this certificate will also earn Google IT Support Professional Certificate.

Program Learning Outcomes: Upon completion, students will be able to
- Perform IT support tasks including computer assembly, setting up wireless networking, installing programs
- Configure permissions and file systems, and provide for security on systems using Linux system, Windows system and Domain Name Systems
- Interact with users to diagnose and debug and where needed develop appropriate documentation to support the user

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

CIS 69A	Technical Support Fundamentals	4.5
CIS 69B	The Bits and Bytes of Computer Networking	4.5
CIS 69C	Operating Systems and You: Becoming a Power User	4.5
CIS 69D	System Administration and IT Infrastructure Services	4.5
CIS 69E	IT Security: Defense Against the Digital Dark Ages	4.5
	Total Units Required	**22.5**