



## ABOUT THIS MAJOR

Students who complete the IT Cybersecurity certificate have enhanced employability in cybersecurity and computer networking. The IT Cybersecurity certificate prepares students to begin a career working with associate-level cybersecurity analysts within security operations centers, where responsibilities include detecting cybersecurity breaches and effectively responding to security incidents. This certificate requires 31 units to be completed.

For more information, visit the [Social and Behavioral Sciences](#) division.

### TO EARN A Certificate A STUDENT MUST COMPLETE THE FOLLOWING:

- [1] Completion of Major & Program Electives Courses
- [2] Minimum grade point average of 2.0
- [3] A C or better in all courses required for the major

### Cert.- IT Cybersecurity

[Total Units Required for the Major 31]

Required Courses (total 25 units)	
CA107 - Microcomputer Hardware and Software Support	4
CA157 - Introduction to Linux	3
CA165 - Digital Forensics Fundamentals	3
CA170 - Virtualization and Cloud Essentials	3
CA171 - Introduction to Networking	3
CA175 - Administering Windows Server	3
CA182 - Network Security	3
CA183 - Security Countermeasures	3

Program Electives, complete total of 6 units	
CA159 - SUSE Linux Server Administration	3
CA166 - Cloud Security Fundamentals	3
CA176 - Windows Server Networking	3
CA179 - Cybersecurity Operations -CCNA-Cyberops	3
CA185 - Network Security - Firewalls and VPNs	3

## RECOMMENDED PATHWAY IT Cybersecurity Certificate

The Recommended Plan of Study is determined by the discipline faculty. Take classes in **Summer** or **Intersession** if needed to complete your degree in a timely manner!

Fall/Spring: Max 19 units | Summer: Max 9 units | Intersession: Max 6 units

■ Major

▲ Program Elective

### SEMESTER 1

Course	Units
■ CA 157	3
■ CA 107	4
Total Units	7

### SEMESTER 2

Course	Units
■ CA 170	3
■ CA 171	3
■ CA 165	3
Total Units	9

### SEMESTER 3

Course	Units
■ CA 175	3
■ CA 182	3
■ CA 183	3
Total Units	9

### SEMESTER 4

Course	Units
▲ Program Elective: CA 179 ( rec.)	3
▲ Program Elective: CA 166 (rec.)	3
Total Units	15

### COUNSELING NOTE SECTION

**Prerequisite:** If a course is listed as a prerequisite for another course, that prerequisite course must be completed with a satisfactory grade to enroll in the next course. A satisfactory grade is a grade of "A," "B," "C" or "P". Students who enroll in classes for which they do not meet the prerequisites will be involuntarily dropped. Students will be notified of this involuntary drop. Title 5, Section 55200(d)

#### Application for Graduation:

Antelope Valley College awards degrees three times annually following the Fall, Spring, and summer semesters. Students must apply for graduation to earn their degree or certificate. **Applications are due by September 6 for spring/summer graduates and by February 14 for fall graduates.**

AVC 25-26 CATALOG: [ACADEMIC POLICIES](#)

#### INFORMATION and RESOURCES

Tutoring Assistance  
Transfer Center

Career Center  
Office of Students with Disabilities

AVC Student Health Services  
Palmdale Center

Basic Needs

Financial Aid

Counseling Division