

Cert. System Administration Level I & II 25-26

(DRAFT)



ABOUT THIS MAJOR

System Administration Level I certificate is designed to prepare students for a career in the computer networking field. The certificate offers a set of necessary classes that prepare students to design, implement, and manage the heterogeneous corporate networks. The network

administration courses emphasize network operating systems, network infrastructure and data communications. Students will acquire the skills to install and administer a Windows network, Virtualization, Active Directory, file system security, DNS, DHCP, and Linux Networking. Students will be introduced to use of routers, switches, network infrastructure, access control list, Virtual LAN (VLAN) and VLAN routing. Individual courses will help students prepare for related industry certification exams such as A+, Network+, Microsoft Server Certification, Linux+, Red Hat RHCSA. Upon completion of this certificate, career opportunities for students include entry-level and mid-management positions in Network Administration. This course was specifically created for the Local Aerospace and Defense Industry. 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

Site Supervisor I

[Total Units Required for the Major 19]

Required Courses, complete ALL courses (total 19 units)	
CA107 - Microcomputer Hardware and Software Support	4
CA151 - Microcomputer Operating System	3
CA153 - Windows Installation and System Support	3
CA157 - Introduction to Linux	3
CA171 - Introduction to Networking	3
CA175 - Administering Windows Server	3

ABOUT THIS MAJOR

The System Administration Level II certificate is designed to pick up where the System Administration Level I certificate leaves off. This certificate with its included classes bring the students skills up to the next level. These courses prepares students to design, implement and manage the heterogeneous corporate network. The network administration courses emphasize network operating systems, network infrastructure and data

communications. Students will acquire the skills to install and administer a Windows network, Virtualization, Active Directory, group policy, file system security, DNS, DHCP, routers, switches, network infrastructure, access control list, Virtual LAN (VLAN) and VLAN routing. Individual courses will assist students in preparing for industry certification exams such as Network+, Microsoft Certs, SUSE Linux Certs and Others. Opportunities available upon completion of the certificate program include entry-level and mid-management positions in Network Administration and support. This course was specifically created for the Local Aerospace and Defense Industry but is applicable to many other industries.

Cert. Site Supervisor II

[Total Units Required for the Major 18]

Require Course: Complete all the following: (18 units)	
CA159 - SUSE Linux Server Administration	3
CA170 - Virtualization and Cloud Essentials	3
CA176 - Windows Server Networking	3
CA182 - Network Security	3
CA183 - Security Countermeasures	3
CA185 - Network Security - Firewalls and VPNs	3

RECOMMENDED PATHWAY

Site Supervisor I 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

SEMESTER 1

Course Advisement	Units
CA 151	3
CA 153	3
CA 107	4
Total Semester Units	10

SEMESTER 2

Course Advisement	Units
CA 171	3
CA 175	4
CA 157	3
Total Semester Units	9
Total units	19

RECOMMENDED PATHWAY

Site Supervisor II 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

SEMESTER 1

Course Advisement	Units
CA 159	3
CA 176	3
CA 170	3
Total Semester Units	9

SEMESTER 2

Course Advisement	Units
CA 182	3
CA 183	3
CA 185	3
Total Semester Units	9
Total units	18

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
Basic Needs

Career Center
Office of Students with Disabilities
Financial Aid

AVC Student Health Services
Palmdale Center
Counseling Division