



# Certificate/AS-Computer Networking (Multi-Platform) 23-24

## Recommended Plan of Study - Counseling

All courses with a + sign indicate a pre-requisite or co-requisite

Term 1 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units	Term 4 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units
CA 107, Microcomputer Hardware & Software Support (Core)		3	CA 176, Windows Server Networking (Core)		3
CA 151, Microcomputer Operating Systems (Core)		3	CA 157, Intro. To LINUX		3
General Education Area D1 (English 101+)		3	CA 182, Network Security (Core)		3
General Education Area E #HD 101		3	General Education Area A (Science) #BIOL 104		3
General Elective #BIP 110 and 120 and 130 (all in one term)		3			
# Recommended	Total	15		Total	12
Term 2 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units	Term 5 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units
CA 171, Intro. to Networking (Core)		3	CA 159, SUSE Linux Server Administration (not in 2-year schedule)		3
CA 175, Administering Windows Server (Core)		3	Program Elective #CA 131		3
CA 153, Windows Installation and System Support		3	General Education Area F (Diversity Studies) #BUS 212		3
General Education Area D2 #Transfer Level Math		4	General Elective. #CA 183		3
	Total	13		Total	12
Term 3 (Summer: Max. 15 units, 12 units recommended)		Units	Transfer or Graduate		
Program Elective #CA 103		3			
General Education Area B (Social Science) #POLS 101		3			
General Education C (Humanities) #MUSC 102		3			
	Total	9			

The state requires all students to have a Comprehensive Educational Plan. Make a counseling appointment as soon as enrollment is established on any term. Come by the Counseling Center or call. Online Counseling is available: <https://www.avc.edu/student-services/counseling>

### Certificate/Major Required Courses:

CA 107, Microcomputer Hardware & Software Support (Core)	4
CA 151, Microcomputer Operating Systems (Core)	3
CA 171, Intro. to Networking (Core)	3
CA 175, Administering Windows Server (Core)	3
CA 176, Windows Server Networking (Core)	3
CA 182, Network Security (Core)	3
CA 153, Windows Installation and System Support	3
CA 157, Intro. To LINUX	3
CA 159, SUSE Linux Server Administration	3
Program Electives (Multi-Platform ONLY, see below)	3
<b>Total Minimum Units Required for Certificate/Major</b>	<b>31</b>

<b>Program Electives: Complete 3 units from the following:</b>	
CA 103, Introduction to Computers & Digital Technology	3
CA 131, Relational Database Management & Design	3
CA 132, Oracle SQL Database Management	3
CA 183, Security Countermeasures	3
<i>other requirements for degree</i>	
General Education	21-27
Proficiency (See Proficiency Requirements)	*
Electives	3-9
<b>Minimum Units Required for AS Degree</b>	<b>60</b>

### Other Requirements:

- Minimum grade of "C" required on each course
- Maximum of 6 pass/no-pass units accepted for the Certificate
- Maximum of 12 pass/no-pass units accepted for the Degree
- Minimum of 9 units must be completed at AVC for the major/certificate
- Refer to catalog or online website for course listings and descriptions
- Substitutions, with prior permission, may be made for certain courses not be offered in a two-year period

AS General Education: At least 3 units from each of the following areas below: A, B, C, D1, D2, E, and F. Minimum Total GE Units Required 21

### Area A Natural Sciences: (min. 3 units)

ANTH 101, 101L  
 ASTR 101+, 101L+  
 BIOL 100, 101+, 101L+, 102, 103, 104, 110+, 120+, 201+, 202+, 204+,  
 CHEM 101+, 102+, 110+, 120+, 210+, 220+  
 ELTE 101  
 ERSC 101+  
 GEOG 101+, 101L+, 102, 102L+  
 GEOL 101+, 101L+, 102+, 102L+  
 PHYS 101, 102+, 110+, 120+, 211+  
 PSCI 101

### Area B Social & Behavioral Sciences: (min. 3 units)

AJ 201, 204, 206  
 ANTH 102, 103, 110, 112, 140  
 BUS 101, 212  
 CFE 102, 103+  
 COMM 217+  
 DFST 105, 106, 110  
 ECON 100, 101+, 102+, 110  
 GEOG 105, 106, 110  
 HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 114, 116+, 118, 119  
 POLS 101, 103, 200, 201+, 202+, 203+  
 PSY 101, 200+, 201+, 212+, 230+, 232, 233+, 234+, 235+, 236+  
 SOC 101, 105, 110, 111, 112, 115, 116, 120, 200+

### Area C Humanities: (min. 3 units)

ART 100, 101, 102, 103, 104, 106, 110, 113, 120, 132, 135, 136+, 137+, 140,  
 145, 150, 163+, 170+, 210+, 213+  
 CHIN 101, 102+, 201+, 202+  
 COMM 112, 114, 214+, 217+, 219+  
 DA 101  
 DFST 101, 102+, 105, 106, 201+, 202+  
 ENGL 102, 111+, 112+, 221+, 222+, 225+, 227+, 230+, 231+, 235+, 242+,  
 253+, 256+, 257+, 259+, 265+, 279  
 FREN 101, 102+, 201+, 202+, 203+  
 FTV 101, 103, 107, 108, 201, 203, 241, 251, 261  
 GER 101, 102+, 201+, 202+  
 HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 115, 118, 119  
 ID 150, 201 (ID courses no longer offered 20-21)  
 MUS 101, 105, 111, 121+, 131, 132+, 151+, 153+, 185+, 231+, 232+,  
 251A+, 251B+, 253A+, 253B+

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## Recommended Plan of Study - Counseling

MUSC 102, 103, 107, 108, 109  
 NF 150  
 PHIL 105, 106, 108, 109  
 PHOT 107

PHTC 101, 150+, 201+  
 SPAN 101, 110SS, 102+, 201+, 202+, 210SS+, 220SS+  
 THA 101, 102, 103, 110, 115A, 115B+, 116A+, 116B+, 117A+, 117B+,  
 118A+, 118B+, 121A, 121B, 130, 133, 225+, 239

### Area D Language & Rationality: (min. 3 units from (1) and 3 units from

1. *Academic Composition:* Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing.

ENGL 101+

2. *Communication and Analytical Thinking*

BUS 113+

CA 103

CIS 101, 111, 141, 157, 161

COMM 101, 107, 109, 112, 114, 115, 217+, 219+

ENGL 102+, 103+

GEOG 201, 205

MATH 110+, 115+, 116+, 120+, 124+, 128+, 135+, 140+,

148+, 150+, 160+, 220+, 230+, 250+

PHIL 101, 106, 110, 201+

### Area E - Additional Breadth: (min. 3 units)

From areas A\*\*, B\*\*, C\*\*, D2, \*\* or

DA 111

HD 100, 101, 102, 103, 105

HE 101, 120, 201

KINT 100

LIB 107, 110

NF 100, 102, 103, 110

Any DA activity course(s) from DA102-205, except DA 107A-C, 108, 109, and 111. Any Kinesiology Fitness (KINF) activity course, Intercollegiate Athletics (IATH) activity course, or up to 4 units for military experience.

**\*\* Courses must be taken from a discipline not previously selected.**

### Area F Diversity Studies: (min. 3 units)

ANTH 102, 112

FTV 201, 203

BUS 212

HE 201+

CFE 116+

HIST 110, 111, 113

COMM 114, 217+, 219+

MUSC 107, 108

DFST 105, 106

POLS 202+

ECON 110

SOC 105, 110, 116

ENGL 250+, 253+, 256+, 257+, 259+

THA 239

### Proficiency Requirements

Proficiency requirements exist for the areas of Writing and Math. Students must demonstrate competency in each of these areas in order to be eligible for the associate degree.

### A. WRITING

Completion of ENGL 101 with a minimum grade of "C." NOTE: ENGL 101 may be taken with the Pass/No Pass option; however, students are cautioned that other colleges and universities may not accept ENGL 101 courses taken on a Pass/No Pass basis, especially for satisfaction of general education and major requirements. Students planning to transfer should check college catalogs for applicable policies.

### B. MATHEMATICS

Completion of MATH 102 or higher or CIS 121 with a satisfactory grade or placement by AVC assessment into a math course higher than MATH 102.

**\*Fulfilling proficiencies** will not require any extra units if the competencies are demonstrated by including the required courses in the general education, or major requirements, or by satisfying the reading proficiency through AVC's policy.

**Electives:** The remaining number of units (up to a minimum of 60) are considered electives. Any course that has already been counted toward (1) the general education requirements, or (2) the major, cannot be used as an elective. Any course with a designation of "AVC" at the end of a course description can be used as an elective.

**Grade Point Average Requirement:** An overall grade point average of 2.0 ("C" average) is required.

**Double Counting:** While a course might satisfy more than one general education requirement, it may not be counted more than once for these purposes. A course may be used to satisfy both a general education requirement and a major or area of emphasis requirement.

**Residency:** Minimum of 12 units completed at AVC with a minimum of 9 of those units completed from the certificate/major. (credit earned by examination will not be included in these 12 units) Title 5, Section 54000: <http://ccr.oal.ca.gov>

**Requirements for Two or More Associate Degrees:** To be eligible for multiple associate degrees, a student must have completed all of the graduation requirements for each degree.

**Transfer:** Students planning to continue studies at a four-year college or university after AVC should visit the Transfer Resource Center or the Counseling Center and consult with a counselor as soon as possible to develop a plan of studies. Additional preparation for the major information on official transfer articulation agreements from AVC to many CSU/UC campuses can be found at the following Web site: [www.assist.org](http://www.assist.org)

The "Catalog Rights Policy" sets forth the criteria used for determining the degree requirements under which students may graduate. Please refer to the AVC Catalog for a detailed description or consult with a counselor.

**Advisory:** A condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

**Prerequisite:** A condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program.

Prerequisites are enforced and a student will be blocked from enrolling or involuntarily dropped after enrolling if the student does not meet the stated prerequisite. A student must complete a course prerequisite with a satisfactory grade of A, B, C or P (pass).

**Corequisite:** A condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. Corequisites are enforced and a student will be blocked from enrolling if the student does not meet the stated co-requisite.