



Certificate/Associates Degree (AS) - IT Cybersecurity 23-24

Recommended Plan of Study - Counseling

Term 1 (Fall/Spring: Max. 19 units, 12-15 units recommended)	Units	Term 3 (Fall/Spring: Max. 19 units, 12-15 units recommended)	Units
Prog. Elective: CA 107, Microcomputer Hardware & Software Support	4	CA 175, Administering Windows Server	3
CA 157, Introduction to Linux	3	CA 182, Network Security - CCNA Security	3
AVC G.E. Area D1 ENGL 101	3	CA 183, Security Counter Measures	3
AVC G.E. Area E #HD 101	3	AVC G.E. Area A #BIOL 104	3
Electives: #BIP 110, 120, 130	3		
#Recommended	16	Total	12
Term 2 (Fall/Spring: Max. 19 units, 12-15 units recommended)	Units	Term 4 (Fall/Spring: Max. 19 units, 12-15 units recommended)	Units
CA 170, Virtualization and Cloud Essentials	3	#CA 165+, Digital Forensics Fund. or CA 166, Cloud Security Fund.	3
CA 171, Introduction to Networking	3	Prog. Electives: # CA 179, Cybersecurity Operations - CCNA-	3
AVC G.E. Area D2 #Transfer Level Math	4	Prog. Electives: # CA166, Cloud Security Fundamentals	3
Electives: #CA 153	3	Elective #CA185 - Network Security - CCNA Security	3
Total	13	Total	12
Term 3 - Summer: Max. 15 units, 12 units recommended	Units	Graduate	
AVC G.E. Area C #MUSC 101	3	<p style="color: red; font-weight: bold;">Take Summer classes if needed to complete the program in a timely manner.</p>	
AVC G.E. Area B #POLS 101	3		
AVC G.E. Area F #BUS 212	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>

IT Cybersecurity Certificates Required Courses:	Units	Area B Social & Behavioral Sciences: (min. 3 units)
CA 157, Introduction to Linux (Formerly CIS 157)	3	AJ 201, 204, 206
CA 165+, Digital Forensics Fundamentals <i>or</i> CA 166, Cloud Security Fundamentals	3	ANTH 102, 103, 110, 112, 140
CA 170, Virtualization and Cloud Essentials	3	BUS 101, 212
CA 171, Introduction to Networking	3	CFE 102, 103+
CA 175, Administering Windows Server	3	COMM 217+
CA 182, Network Security	3	DFST 105, 106, 110
CA 183, Security Counter Measures	3	ECON 100, 101+, 102+, 110
		GEOG 105, 106, 110
21 units for the certificate, 30 units for the degree - Total Units:	21	HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 114, 116+, 118, 119
Program Electives: (complete 9 units for the Major only)		POLS 101, 103, 200, 201+, 202+, 203+
CA 107, Microcomputer Hardware and Software Support	3	PSY 101, 200+, 201+, 212+, 230+, 232, 233+, 234+, 235+, 236+
CA 131, Relational Database Management and Design	3	SOC 101, 105, 110, 111, 112, 115, 116, 120, 200+
CA 159, SUSE Linux Server Administration	3	
CA 165, Digital Forensic Fundamentals	3	Area C Humanities: (min. 3 units)
CA 166, Cloud Security Fundamentals	3	ART 100, 101, 102, 103, 104, 106, 110, 113, 120, 132, 135, 136+, 137+, 140, 145, 150, 163+, 170+, 210+, 213+
CA 176, Windows Server Networking	3	CHIN 101, 102+, 201+, 202+
CA 179, Cybersecurity Operations -CCNA-Cyberops	3	COMM 112, 114, 214+, 217+, 219+
		DA 101
Other Requirements:		DFST 101, 102+, 105, 106, 201+, 202+
• Minimum grade of "C" required on each course		ENGL 102, 111+, 112+, 221+, 222+, 225+, 227+, 230+, 231+, 235+, 242+, 253+, 256+, 257+, 259+, 265+, 279+
• Refer to catalog or online website for course listings and descriptions		FREN 101, 102+, 201+, 202+, 203+
• A maximum of 6 pass/no pass units will be accepted for this certificate		FTV 101, 103, 107, 108, 201, 203, 241, 251, 261
• Maximum of 12 pass/no-pass units accepted for the Degree		GER 101, 102+, 201+, 202+
• Minimum of 9 units must be completed at AVC for the major/certificate		HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 115, 118, 119
• Refer to catalog or online website for course listings and descriptions		LATN 101, 102+, 201+
• Substitutions, with prior permission, may be made for certain courses that may not be offered in a two-year period.		MUS 101, 105, 111, 121+, 131, 132+, 151+, 153+, 185+, 231+, 232+, 251A+, 251B+, 253A+, 253B+
AS General Education: At least 5 units from each of the following areas below: A, B, C, D1, D2, E, and F. Minimum Total GE Units Required 21		MUSC 102, 103, 107, 108, 109
Area A Natural Sciences: (min. 3 units)		NF 150
ANTH 101, 101L		PHIL 105, 106, 108, 109
ASTR 101+, 101L+		PHOT 107
BIOL 100, 101+, 101L+, 102, 103, 104, 110+, 120+, 201+, 202+, 204+, 205+		PHTC 101, 150+, 201+
CHEM 101+, 102+, 110+, 120+, 210+, 220+		SPAN 101, 110SS, 102+, 201+, 202+, 210SS+, 220SS+
ELTE 101		THA 101, 102, 103, 110, 115A, 115B+, 116A+, 116B+, 117A+, 117B+, 118A+, 118B+, 121A, 121B, 130, 133, 225+, 239
ERSC 101+		Area D Language & Rationality: (min. 3 units from (1) and 3 units from (2))
GEOG 101+, 101L+, 102, 102L+		1. <i>Academic Composition:</i> Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing.
GEOL 101+, 101L+, 102+, 102L+		ENGL 101+
PHYS 101, 102+, 110+, 120+, 211+		
PSCI 101		

Certificate/Associates Degree (AS) - IT Cybersecurity 23-24

Recommended Plan of Study - Counseling

2. Communication and Analytical Thinking

- BUS 113+
- CA 103
- CS 120, 121, 122, 123
- 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.

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.

Students who complete the IT Cybersecurity certificate have enhanced employability in cyber security and computer networking, and in a similarly titled positions. 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.

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

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