

AST-Computer Science for Transfer Degree 23-24

Recommended Plan of Study - Counseling

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

DRAFT (Pending Catalog Publishing & State Approval)

GP

Term 1 (Summer: Max. 15 units, 12 units recommended)		Units			
(UC) Elective		1	*This degree may only be earned by completing the Intersegmental General Education		
#COMM 101 (CSU Only)	1c IGETC	3	Transfer Curriculum (IGETC) for STEM. Please consult a counselor for additional		
	3A/H IGETC	3	in formation.		
# Recommended	Total	7	Please refer to www.assist.org for transfer requirements		
Term 2 (Fall/Spring: Max. 19 units, 12-15 units recommended)		Units	Term 4 (Fall/Spring: Max. 19 units, 12-15 units recommended)		
CS 120 or CS 121 or CS 122, Programming & Algorithms		3	CS 140+, Assembly Language & Computer Architecture	3	
#MUSC 102 or 103 or 107	3A IGETC	3	*PHYS 110+, General Physics 5A	A & 4	
MATH 150+	2 IGETC	5	#SOC 110 4 IGET	C 3	
ENGL 101+. 1a IGETC		3	Ethnic Studies (beg. 23-24) 7 IGETC		
	Total	14	#(SPAN 101 is a Pre-req for SPAN 102) (UC only) if needed (5 Total	13	
Term 3 (Fall/Spring: Max. 19 units, 12-15 units recommended)		Units	Term 5 (Fall/Spring: Max. 19 units, 12-15 units recommended)		
MATH 160+, Calculus & Analytic Geometry: Elect. (Transfer required)		4	CS 150+, Discrete Structures	3	
CS 130+ or CS 131+ or CS 132+, Data Structures		3	BIOL 110+ or BIOL 120+ or CHEM 110+ or PHYS 120+		
#BIOL 104	5b IGETC	3	#HIST 110 or 111 3H IGET	CC 3	
#ENGL 103 1b IGETC		3	#POLS 101 4 IGET	C 3	
	Total	13	Include LOTE #SPAN 102+ (UC only) if needed (5 units) Total	14	
	Grand Total:	61	Transfer or Graduate		

Take Summer classes if needed to complete the program in a timely manner.

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 Required Courses: CS 120 or CS 121 or CS 122, Programming & Algorhitms CS 130+ or CS 131+ or CS 132+, Data Structures 3 CS 140+, Assembly Language & Computer Architecture 3 CS 150+, Discrete Structures 3 MATH 150+, Calculus & Analytic Geometry (IGETC 2) 5 MATH 160+, Calculus & Analytic Geometry 4 PHYS 110+, General Physics (IGETC 5A & 5C) 4 BIOL 110+, General Molecular Cell Biology or 4-5 BIOL 120+, Gen. Organismal, Ecological & Evolutionary Biol. or CHEM 110+, General Chemistry or

Units Required for Major: 29-30

other requirements for degree

PHYS 120+, General Physics

36-39 IGETC Pattern

UC Transferrable Elective Units to reach Degree Total

60 Minimum Units Required

*Courses denoted with an asterisk will fulfill the completion requirements for both the major and genera education.

General Education Requirements: Complete IGETC.

**LOTE: Language Other than English

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 "CSU" at the end of a course description can be used as an elective for a CSU transfer and a "UC" designation for a UC school.

All transfer Degrees are a guarantee of admission to the CSU system (not a specific campus) and a path of admission to the UC system.

Recommended Workshops for Transfer Students

Transfer Students (those planning to transfer to a four-year university after attending AVC): You are encouraged to attend the following workshops while at AVC:

- * Transfer Pathway Workshop (Term 1 or 2 or ASAP)
- * CSU/UC Application Workshop (approx. 1 year prior to transfer)
- * Learning Center Workshops

UC-bound Transfer Students (in addition to above):

*TAG Workshop

*PIQ Workshop

New to Former Courses

CS 120 **(Formerly CIS 161/173)

CS 121 (Formerly CIS 111)

CS 122 (Formerly CIS 177)

CS 130+ (No Former Course) CS 131+ (Formerly CIS 113)

CS 132+ (No Former Course)

CS 140+ (Formerly CIS 123)

CS 150+ (Formerly CIS 121)

* ADTs do NOT allow for combined course substitutions.

AST-Computer Science for Transfer Degree 23-24 Recommended F an of Study - Counseling

Computer science is the study of the theory and methods of processing information in digital computers, the design of computer software and hardware, and the applications of computers. Courses cover programming fundamentals, data structures, discrete mathematics, and computer architecture, along with specific programming languages. The Associate in Science in Computer Science for Transfer degree is offered for those students desiring a major in computer science at a California State University. The Associate in Science in Computer Science for Transfer (AS-T in Computer Science) degree is to provide students with foundational knowledge of computer science, to enhance their problem solving skills, sharpen their critical thinking, and the opportunity to seamlessly transfer to a California State University in advanced standing as a Computer Science major. Additionally, the degree can prepare students in areas of science and engineering. Program Learning Outcomes include the following:

- 1. Design, create and test a program in a high-level, object-oriented, programming language based on a given set of specifications.
- 2. Design, create and test a program in assembly language based on a given set of specifications.
- 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

Grade Point Average Requirement: An overall grade point average (G.P.A.) of 2.0 ("C" average) is required by AVC and the CSU system. The UC system requires a minimum of a 2.4 G.P.A. and significantly higher to be competitive.

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

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.