

POLS 101, 103, 200, 201+, 202+, 203+

PSY 101, 200+, 201+, 212+, 230+, 232, 233+, 234+, 235+, 236+

AS - Computer Engineering 23-24 **Recommended Plan of Study - Counseling**

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

GP Term 1 (Fall/Spring: Max. 19 units, 12-15 u. recommended) Units Term 4 (Fall/Spring: Max. 19 units, 12-15 u. recommended) Unit Gen. Ed. Area D2 MATH 150+, Calculus & Analytic Geometry 5 MATH 250+, Calculus & Analytic Geometry 4 %ENGR 110+, Introduction to Engineering 3 PHYS 120+, General Physics 4 3 CS 140+, Assembly Language and Computer Architecture 3 General Education Area B #POLS 101 Gen Ed. Area D1 (English 101+) 3 Programming Option, CS 130+ or 131+ or 132+ 3 14 # Recommended 14 Term 2 (Fall/Spring: Max. 19 units, 12-15 u. recommended) Term 5 (Fall/Spring: Max. 19 units, 12-15 u. recommended) Units Unit MATH 160+, Calculus & Analytic Geometry 4 MATH 230+, Introduction to Ordinary Differential Equations 4 4 Gen. Ed. Area A PHYSICS 110+, General Physics 4 MATH 220+, Linear Algebra Gen Ed. Area E Program. Opt. CS 120 or 121 or 122 3 ENGR 230+, Circuit Analysis 4 General Education Area F #HIST 110 3 CS 150+, Discrete Structures 3 Total 14 Total Transfer or Graduate Term 3 (Fall/Spring: Max. 19 units, 12-15 u. recommended) The state requires all students to have a Comprehensive Educational Plan. Make a #ART 103 counseling appointment as soon as enrollment is established on any term. Come by Total the Counseling Center or call. Area C Humanities: (min. 3 units) Major Required Courses: (48 units) ART 100, 101, 102, 103, 104, 106, 110, 113, 120, 132, 135, 136+, 137+, 140, MATH 150+, Calculus & Analytic Geometry 145, 150, 163+, CHIN 101, 102+, 201+, 202+ MATH 160+, Calculus & Analytic Geometry MATH 220+, Linear Algebra COMM 112, 114, 214+, 217+, 219+ MATH 230+, Introduction to Ordinary Differential Equations 4 DA 101 MATH 250+, Calculus & Analytic Geometry DFST 101, 102+, 105, 106, 201+, 202+ PHYS 110+, General Physics 4 ENGL 102, 111+, 112+, 221+, 222+, 225+, 227+, 230+, 231+, 235+, 242+, PHYS 120+, General Physics 4 253+, 256+, 257+, 259+, 265+, 279+ FREN 101, 102+, 201+, 202+, 203+ ENGR 110+, Introduction to Engineering 3 ENGR 230+, Circuit Analysis 4 FTV 101, 103, 107, 108, 201, 203, 241, 251, 261 GER 101, 102+, 201+, 202+ CS 140+, Assembly Language and Computer Architecture HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 115, 118, 119 CS 150+, Discrete Structures Programming Options: 6 unit seq. based on selected transfer LATN 101, 102+, 201+ MUS 101, 105, 111, 121+, 131, 132+, 151+, 153+, 185+, 231+, 232+, 251A+, Programming and Algorithms CS 120, C/C++ or CS 121, Java or CS 122, Python 3 253A+, 253B+ CS 130+, C++ or CS 131+, Java or CS 132+ Python MUSC 102, 103, 107,108, 109 Units Required for the Major: 48 NF 150 PHIL 105, 106, 108, 109 other requirements for degree General Education **PHOT 107** Proficiency (See Proficiency Requirements) PHTC 101, 150+, 201+ SPAN 101, 110SS, 102+, 201+, 202+, 210SS+, 220SS+ n Electives Minimum Units Required for AS Degree THA 101, 102, 103, 110, 115A, 115B+, 116A+, 116B+, 117A+, 117B+, 118A+, 118B+, 121A, 121B, 130, 133, 225+, 239 Other Requirements: Area D Language & Rationality: (min. 3 units from (1) and 3 units from (2)) • Minimum grade of "C" required on each course Maximum of 12 pass/no-pass units accepted for the Degree 1. Academic Composition: Courses fulfilling the written composition requirement • Refer to catalog or online website for course listings and descriptions shall be designed to include both expository and argumentative writing. 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: 2 2. Communication and Analytical Thinking Area A Natural Sciences: (min. 3 units) BUS 113+ ANTH 101, 101L CA 103 ASTR 101+, 101L+ CS 120, 121, 122, 123 BIOL 100, 101+, 101L+, 102, 103, 104, 110+, 120+, 201+, 202+, 204+, COMM 101, 107, 109, 112, 114, 115, 217+, 219+ CHEM 101+, 102+, 110+, 120+, 210+, 220+ ENGL 102+, 103+ **ELTE 101** GEOG 201, 205 ERSC 101+ MATH 110+, 115+, 116+, 120+, 124+, 128+, 135+, 140+, 148+ 150+, 160+, 220+, 230+, 250+ GEOG 101+, 101L+, 102, 102L+ GEOL 101+, 101L+, 102+, 102L+ PHIL 101, 106, 110, 201+ Area E - Additional Breadth: (min. 3 units) PHYS 101, 102+, 110+, 120+, 211+ From areas A**, B**, C**, D2,** or Area B Social & Behavioral Sciences: (min. 3 units)
AJ 201, 204, 206 SOC 101, 105, 110, 111, 112, 115, 116, 120, DA 111 HD 100, 101, 102, 103, 105 ANTH 102, 103, 110, 112, 140 SOC 200+ HE 101, 120, 201 BUS 101, 212 KINT 100 CFE 102, 103+ LIB 107, 110 COMM 217+ NF 100, 102, 103, 110 DFST 105, 106, 110 ECON 100, 101+, 102+, 110 GEOG 105, 106, 110 Any DA activity course(s) from DA102-205, except DA 107A-C, 108, 109, HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 114, 116+, 118, 119

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.

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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 AVCs 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

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.