





ABOUT THIS MAJOR

The Associate in Science in Mathematics for Transfer (AS-T) offers students a fundamental knowledge of Mathematics and its relation to science, technology, and engineering. Students will enhance their problem solving and critical

thinking skills by applying mathematical models to real world problems or utilizing mathematical objects and theorems to evaluate the validity of a statement or to prove mathematical statements. For more information, visit the Mathematics, Sciences, and Engineering division.

TO EARN A DEGREE A STUDENT MUST COMPLETE THE FOLLOWING:

- [1] Completion of 60-semester units
- [2] Completion of General Education Requirements
- [3] Minimum grade point average of 2.0
- [4] A C or better in all courses required for the major

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.

AST - Mathematics [Total Units 18-19]

Required Courses: (13units)				
MATH150 - Calculus and Analytic Geometry	5			
MATH160 - Calculus and Analytic Geometry	4			
MATH250 - Calculus and Analytic Geometry	4			

Required Elective Group A & B (8-16 units) Select 6 units minimum from the lists below with at least 3 units from list A				
Required Elective A: Select one to two (Total 4 - 8)				
MATH 220-Linear Algebra	4			
MATH 230 - Introduction to Ordinary Differential Equations 4				
Required Elective B: Select one (Total 4 - 8)				
PHYS110 - General Physics	4			
MATH115 - Statistics OR MATH116 - Intro to Statistics Using R	4			

COUNSELING NOTE SECTION

Consult with Counselor regarding Math Placement

Mathematics Calculus Sequence and prerequisites: MATH 135 ->MATH140-> MATH 150->MATH 160->MATH 220, MATH 250, MATH 230. (Trigonometry) (Precalc) (Calc 1) (Calc 2) (Linear Alg.) , (Diff.Eq.), (Calc 3)

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)

AVC 24-25 CATALOG: ACADEMIC POLICIES

INFORMATION and RESOURCES

Tutoring Assistance	Career Center	AVC Student Health Services
Transfer Center	Office of Students with Disabilities	Palmdale Center
Basic Needs	Financial Aid	Counseling Division

RECOMMENDED PATHWAY: AST-Mathematics

The Recommended Plan of Study is determined by the discipline faculty. All Program Electives for the Major and General Education Courses are recommended only. Except for ENGL 101, you can make other selections for this area if you choose (See back page for GE options).

- [*] = Courses will fulfill the completion requirements for Major & Gen Ed |
- [#] recommended courses may select other options.
 Electives are courses that count toward your credits for graduation, but not specific to degree of study.
- IGETC GE transfer pathways: CSU UC PRIVATE OUT OF STATE OR UNSURE CSU GE transfer pathways: CSU ONLY
- **IGETC GE PATTERN:** 2yrs HS LOTE or IGETC LOTE 101 & 102 Requirement (UC ONLY) Take classes in Summer or Intersession if needed to complete your degree in a timely manner!
- Fall/Spring: Max 19 units, 12-15 units Recommended.

TERM 1					
CSU Gen-Ed Sequence	IGETC Gen-Ed Sequence	Units			
CSU B4 * MATH 150	IGETC 2: * MATH 150	5			
CSU A1: #COMM 101	IGETC 1C (CSU only)	3			
CSU C2: #PHIL 106	IGETC 3H	3			
CSU E: #HE120	Transferable Elective	3			
ELECTIVE: #KINF 107	ELECTIVE: #KINF 107	1			
	Total Units	15			

TERM 2				
CSU Gen-Ed Sequence	IGETC Gen-Ed Sequence	Units		
MATH 160		4		
CSU B1/B3: *#PHYS 110	IGETC 5A/5C:*#PHYS 110	4		
CSU A2: Engl 101	IGETC 1A: ENGL 101	3		
CSU D: #HIST 108	IGETC 4: #HIST 111	3		
ELECTIVE: #KINF 108	ELECTIVE: #KINF 108	1		
	Total Units	15		

TERM 3				
CSU Gen-Ed Sequence	IGETC Gen-Ed Sequence	Units		
MATH 250				
Program Elective A/B: MATH 115 or 116 or 230				
CSU A3: #PHIL 201	IGETC 1B: #PHIL 201	3		
CSU C1: #FTV 101	IGETC 3A: #FTV 101	3		
CSU D:#POLS 101	IGETC 4: #POLS 101	3		
	Total Units	17		

TERM 4				
CSU Gen-Ed Sequence IGETC Gen-Ed Sequence				
Program Elective A: # MATH 220				
CSU B2: #ANTH 101	IGETC 5B: #ANTH 101	3		
CSU F:# ENGL 257	IGETC 7: #ENGL 257	3		
CSU C1/C2: #MUS 101	IGETC 3A/3H:#MUS 101	4		
	Total Units	13		

TRANSFER BEGINS DAY 1

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AST-Mathematics for Transfer Degree 24-25



	TRANSFER OPTION 1 - MIN GPA 3.0 [CSU - UC - PRIVATE - OUT OF STATE - OR UNSURE]			TRANSFER OPTION 2 - MIN GPA 2.0 [CSU ONLY]					
				23-24 CSU PLAN					
	[Int	erse	gmer	ntal General Educational Transfer Curriculum]	[CSU General Education Requirements]				
	letion	of all	the rec	quirements in the Intersegmental General Education Transfer	Cor	npletic	n of a		requirements in the CSU General Education Breadth may satisfy lower
who t Unive	ransfe rsity o	er from or Univ	Antelo ersity c	satisfy lower division general education requirements for students ope Valley College to a campus in either the California State of California system. The course requirements for all areas must be ETC can be certified.	division general education requirements for students who transfer from Antelope Valley College to a California State University campus. Courses may not be used in more than one area with the exception of American Institutions requirement. Legend: () = Newly Approved, Effective Fall 2023				
All co	ourses	must	be com	pleted with grades of "C" or better and may not be used in more					
than GE AREA	one ar	rea. Le	egend:	() = Newly Approved, Effective Fall 2023 Advising Form Effective Fall 2023 - Summer 2024	GE AREA	COMPLETED	IN PROGRESS	NEED	Advising Form Effective Fall 2023 - Summer 2024
CSU -	1: EN 3 cou	IGLISH Irses r	equire	UNICATION d, one from each group 9 semester or 12 quarter units , one each from groups (A) and (B) 6 semester or 8 quarter units	9 sen		units	(12 qua	JAGE COMMUNICATION AND CRITICAL THINKING arter units); One course in each Subareas A1, A2, and A3. Grade of "C" or A.
1A				Group A English Composition: ENGL 101	A1				A1 Oral Communication: COMM 101, (201)
1B				Group B Critical Thinking: ENGL 102, 103; PHIL 201	A2				A2 Written Communication: ENGL 101
1C				Group C Oral Communication (CSU ONLY): COMM 101	A3				A3 Critical Thinking: COMM 110, 115; ENGL 102, 103; PHIL 101, 106, 110, 201
				CONCEPTS AND QUANTITATIVE REASONING					UIRY AND QUANTITATIVE REASONING- 9 semester units (12 quarter
	rse, 3	semes	ter or 4	4 quarter units					Subareas B1, B2, and B4, plus laboratory activity (B3) related to one of ourses. <u># meets B3 requirement</u>
3 cou	rses, 9) seme	ster un	MATH 110, 115, 116, 124, 128, 140, 148, 150, 160, 220, 230, 250 ANITIES its or 12 quarter units	B1				B1 Physical Science: ASTR 101; CHEM 101#, 102#, 110#, 120#, 210#, 220#; ERSC 101#; GEOG 101, 102; GEOL 101, 102; PHYS 101#, 102#, 110#, 120#, 211#; PSCI 101#
	ase one	e cours	se from	3A, one from the 3B, and one additional course from either 3A or 3B ARTS: ART 100, 101, 102, 103, 104, 106; DA 101; ENGL 235;	B2				B2 Life Science: ANTH 101; BIOL 101*#, 102#, 103#, 104, 110#, 120#, 201#, 202#, 204#, 205#
3A				FTV 101, 107, 108, 201, 203; MUS 101, 105; MUSC 102, 103, 107, 108; THA 101, 110, 225	52				*# Must register for required lab component separately
3B				HUMANITIES: CHIN 102; COMM 114, 217; ENGL 221, 222, 225, 227, 230, 231, 235, 242, 253, 256, 257, 259, 265, 279; FREN 102, 201, 202, 203; FTV 201, 203, 251; GER 102, 201,	В3				B3 Laboratory Activity: ANTH 101L; ASTR 101L; BIOL 101L; GEOG 101L, 102L; GEOL 101L, 102L
3A or 3B				202; HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 115, 119; LATN 102, 201; PHIL 105, 106, 108, 109; PHOT 107; SPAN 110SS, 201, 202, 203, 210SS, 220SS; THA 239	B4				B4 Mathematics/Quantitative Reasoning: Grade of "C" or better required in Area B4 MATH (103), 110, 115, 116, 120, 124, 128, (131), 135, 140, 148, 150,
2 cou	rses, 6	i seme	ster un	HAVIORAL SCIENCE its or 8 quarter units. Courses shall be completed in at least 2					160, 220, 230, 250 ANITIES- 9 semester units (12 quarter units) reas C1 and C2, and one additional course from either C1 or C2.
4	rent di		es.	AJ 206; ANTH 102, 103, 110, 112, 140; BUS 212; CFE 102, 103; ECON 100, 101, 102, 110; DFST 105, 106 (110); GEOG 105, 106, 110; HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 114, 116, 118, 119; POLS 101, 103, 200, 202, 203;	C1			Juba	C1 Arts: ART 100, 101, 102, 103, 104, 106, 113, 132, 135, 137, 140, 145, 163, 170, 213; COMM 112, 114; DA 101; FTV 101, 107, 108, 201, 203, 251; HIST 115; MUS 101, 105, 111, 121, 126, 131, 132, 151, 153B, 160, 166, 185, 231, 251A, 251B; MUSC 102, 103, 107, 108,
4				PSY 101, 200, 201, 212, 230, 232, 233, 234, 235, 236; SOC 101, 105, 110, 111, 112, 115, 116, 120, 200; THA (240)					142, 173, 220A, 273; PHTC 101, 150, 201; PHOT 107; THA 101, 102, 110, 130, 225
At lea	ast 2 c	ourses	require	BIOLOGICAL SCIENCES ed, 7 semester units or 9 quarter units	C2				C2 Humanities: CHIN 101, 102, 201, 202; COMM 112, 217, 219; DFST 101, 102, 201, 202; ENGL 102, 111, 112, 221, 222, 225, 227,
				rse and one biological science course; at least one course must C requirement	61				230, 231, 235, 242, 253, 256, 257, 259, 265, 279; FREN 101, 102, 201, 202, 203; FTV 201, 203, 251; GER 101, 102, 201, 202; HIST
5A				A: PHYSICAL SCIENCES: ASTR 101; CHEM 101#, 102#, 110#, 120#, 210#, 220#; ERSC 101#; GEOG 101, 102;	C1				101, 102, 104, 105, 107, 108, 110, 111, 113, 115, 118, 119; LATN 101, 102, 201;
				GEOL 101, 102; PHYS 101#, 102#, 110#, 120#, 211#; PSCI 101#	or C2				MUSC 108; NF 150; PHIL 105, 106, 108, 109; PHOT 107; SPAN 101, 11055, 102, 201, 202, 203, 21055, 22055; THA 239
5B				B: BIOLOGICAL SCIENCES: ANTH 101; BIOL 101*#, 102#, 103#, 104, 110#, 120#, 201#, 202#, 204#, 205# *# Must register for required lab component separately					E 6 semester units (8 quarter units) ed in at least 2 different disciplines.
5C				C: LABORATORY: ANTH 101L; ASTR 101L; BIOL 101L; GEOG 101L, 102L; GEOL 101L, 102L	D1				AJ 206; ANTH 102, 103, 110, 112, 140; BUS 212; CFE 102, 103; DFST 105, 106, 110; ECON 100, 101, 102, 110; GEOG 105, 106, 110; HIST 101, 102, 104, 105, 107, 108, 110, 111,
Profi	ciency	equiva	alent to	HER THAN ENGLISH (UC REQUIREMENT ONLY) two years of high school in the same language with a grade of "C" igher on the AP Foreign Language test, OR 550 on the College Board	D2				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
Achie		nt Test		right on the Ar roleign Language test, or 550 on the Coulege board eign Language OR complete one of the foreign language courses	for 4	units**	Basic	Militar	NING & SELF-DEVELOPMENT- 3 semester units (4 quarter units) DD214 y Training notated on an official Military Transcript (e.g. CCAF, JST) may
6				CHIN 102, 201, 202; DFST 102, 201, 202; FREN 102, 201, 202, 203; GER 102, 201, 202; LATN 102, 201; SPAN 102, 201, 202, 203, 110SS, 210SS, 220SS	be su E	ibstitut	ed for	the D	D214 CFE 102; COMM 107; DA 108, 111; HE 101, 120; HD 101, 102, 105; NF 100, 103, 150; PSY 212, 236; SOC 111, 116, 120
				S1 course, 3 semester or 4 quarter units ea 4 and inclusion of Area 7 take effect for students matriculating at	AREA	F: ETH	INIC S	TUDIE	S- 3 semester (4 quarter units)
a Cal				college beginning in Fall 2023	F				ENGL 257 or ETHN 257EN
(Not	part of	f IGET	C, may	ENGL 257 or ETHN 257EN IREMENT IN U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS be completed prior to transfer). 2 courses, 6 semester units or 8		d D ab		als- 6 :	Semester (8 quarter units) Select one pair. Courses may also apply to Area
quart	er unit	ts. May	/ also a	pply to Area 3B & 4. HIST 107 & POLS 101; HIST 108 & POLS 101; HIST 110 & POLS	A.I.				HIST 107 & POLS 101; HIST 108 & POLS 101; HIST 110 & POLS 101; HIST 111 & POLS 101
				101; HIST 111 & POLS 101					

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