

Mathematics for Transfer (AS-T) 25-26



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 <u>Mathematics</u>, <u>Sciences</u>, <u>and Engineering</u> division.

TO EARN A DEGREE A STUDENT MUST COMPLETE THE FOLLOWING:

- [1] Completion of a minimum of 60-semester units or 90 quarter units of degree applicable courses
- [2] A minimum of 18-semester units in a major
- [3] Completion of Cal-GETC General Education Requirements
- [4] Minimum overall grade point average of 2.0
- [5] A C or better in all courses required for the major

AST - Mathematics

[Total Units Required for the Major 21]

Required Core Courses, choose one (5 units)	
MATH150 - Calculus and Analytic Geometry	5
MATH150H - Calculus & Analytic Geometry Honors	5
Required Core Courses, complete ALL courses (total 8 units	5)
MATH160 - Calculus and Analytic Geometry	4
MATH250 - Calculus and Analytic Geometry	4

Required Elective Group A & B (8-16 units) Select 8 units minimum from the lists below with at least 4 units from list A	·
Required Elective A, choose one (Total 4 - 8)	
Required Elective A, choose one (lotal 4 - 0)	
MATH 220 - Linear Algebra	4
MATH 230 - Introduction to Ordinary Differential Equations	4
Required Elective B (Total 0-4)	
PHYS110 - General Physics	4
STATC1000 - Introduction to Statistics	4
STATC1000H - Introduction to Statistics - Honors	4
MATH116 - Introduction to Statistics Using R	4

RECOMMENDED PATHWAY Associate of Science in Mathematics for Transfer

The Recommended Plan of Study is determined by the discipline faculty Take classes in Summer or Intersession if needed to complete your degree in a timely manner!

Fall/Spring: Max 19 units | Summer: Max 9 units | Intersession: Max 6 units

General Education 🔵 E

SEMESTER 1

Course Advisement	Units
■ MATH 150 OR MATH 150H	5
 Cal-GETC GE AREA 3B: Humanities 	3
 CAL-GETC GE AREA 1C: ORAL COMMUNICATION 	3
 Cal-GETC GE AREA 6: Ethnic Studies 	3
Total Semester Units	14

SEMESTER 2

Course Advisement	Units
■ MATH 160	4
 CAL-GETC GE AREA 5A: PHYSICAL SCIENCE 	3
CAL-GETC GE AREA 5C: Science Lab	1
 Cal-GETC GE AREA 4: Social & Behavioral Science 	3
● Cal-GETC GE AREA 1A: ENGLC1000 (FORMALLY ENGL 101)	3
▲ GENERAL ELECTIVE	2
Total Semester Units	16

SEMESTER 3

Course Advisement	Units
■ MATH 250	4
CAL-GETC GE AREA 3A: Arts	3
Cal-GETC GE AREA 4: Social & Behavioral Science	3
 CAL-GETC GE AREA 1B: Critical Thinking 	3
▲ GENERAL ELECTIVE	3
Total Semester Units	16

SEMESTER 4

Course Advisement	
Required Elective List A	4
Require Elective List A or B	4
 Cal-GETC GE AREA 5B: Biological Sciences 	3
▲ GENERAL ELECTIVE	3
Total Semester Units	14
Total Degree units	60

COUNSELING NOTE SECTION

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)

Application for Graduation:

Antelope Valley College awards degrees three times annually following the Fall, Spring, and summer semesters. Students must apply for graduation to earn their degree or certificate. Applications are due by September 6 for spring/summer graduates and by February 14 for fall graduates.

AVC 25-26 CATALOG: ACADEMIC POLICIES

INFORMATION and RESOURCES

Tutoring Assistance Career Center AVC
Transfer Center Office of Students with Disabilities Pal
Basic Needs Financial Aid Cor

AVC Student Health Services Palmdale Center

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Г	Г	_	2025-2026 Cal-GETC (California General Education Transfer Curriculum)	
	Advising Form Effective Fall 2025 - Summer 2026			
GE AREA	COMPLETED	IN PROGRESS	z	
L			AREA 1: ENGLISH COMMUNICATION 3 courses, one in each area (1a, 1b, 1c): 9 semester or 12 quarter units	
1A	L		Area 1A English Composition: ENGL C1000, C1000H	
1B		L	Area 1B Critical Thinking and Composition: ENGL C1001, C1001H, 102, 102H; PHIL 201	
1C			Area 1C Oral Communication: COMM C1000, C1000H	
			AREA 2: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING 1 course, 3 semester or 4 quarter units	
2 A			MATH 110, 116, 124, 128, 140, 148, 150, 150H, 160, 220, 230, 250; STAT C1000, C1000H	
			AREA 3: ARTS AND HUMANITIES 2 courses (one course from 3A, one from the 3B), 6 semester units or 8 quarter units	
3A	L	L	ARTS: ART 100, 101, 101H, 102, 103, 104, 106; DA 101, 113; ENGL 235; FTV 101, 107, 108, 201, 203; MUS 101, 101H, 105, 106, 110; MUSC 102, 103, 107, 108, 109; THA 101, 101H, 110, 111, 225	
3B			HUMANITIES: CHIN 102; COMM 114, 217; ENGL 221, 222, 225, 227, 230, 231, 235, 242, 253, 253H, 256, 257, 259, 265, 279; FREN 102, 201, 202, 203; FTV 201, 203, 251; GER 102, 201, 202; HIST 104, 105, 107, 107H, 108, 108H, 110H, 111H, 113, 115, 119; LATN 102, 201; PHIL 105, 105H, 106, 108, 109, 130, 140; PHOT 107; SPAN 110SS, 201, 202, 203, 210SS, 220SS; THA 239, 239H	
			AREA 4: SOCIAL AND BEHAVIORAL SCIENCE 2 courses from two academic disciplines, 6 semester units or 8 quarter units	
4			AJ 206; ANTH 102, 103, 110, 112, 112H, 140; BUS 212; CFE 102, 103; ECON 100, 101, 101H,102, 102H, 110; DFST 105, 106, 110; GEOG 105, 106, 110; HIST 104, 105, 107, 107H, 108, 108H, 110, 110H, 111, 111H, 113, 114, 116, 118, 119; POLS C1000, C1000H, 103, 200, 201, 202, 203; PSY 200, 201, 212, 230, 232, 233, 234, 235, 236; PSYC C1000, C1000H; SOC 101, 101H, 105, 110, 111, 112, 115, 116, 120, 200;	
		_	AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES 2 courses (one Physical Science {A} and one Biological Science {B}); at least one of the two courses must be associated with a Laboratory. 7 semester units or 9 quarter units # meets 5C requirement	
5A			A: PHYSICAL SCIENCES: ASTR 101, 101H; CHEM 101#, 102#, 110#, 120#, 210#, 220#; ERSC 101#; GEOG 101, 102; GEOL 101, 101H, 102; PHYS 101#, 102#, 110#, 120#, 211#; PSCI 101# #Lab included, satisfies 5C as well	
5B			B: BIOLOGICAL SCIENCES: ANTH 101, 101H; BIOL 101°#, 102#, 103#, 104, 104H, 110#, 120#, 201#, 202#, 204#, 205# *# Must register for required lab component (BIOL 101L) separately #Lab included, satisfies 5C as well	
5C			C: LABORATORY: ANTH 101L; ASTR 101L; BIOL 101L; GEOG 101L, 102L; GEOL 101L, 102L	
			AREA 6: ETHNIC STUDIES 1 course, 3 semester or 4 quarter units	
6			ENGL 257; ETHN 101, 102, 257EN	