AST-Physics for Transfer Degree 24-25





ABOUT THIS MAJOR

The Associate in Science in Physics for Transfer (AS-T) offers students a fundamental knowledge of Physics 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 - Physics [Total Units 26]

Required Courses	
PHYS110 - General Physics	4
PHYS120 - General Physics	4
PHYS211 - General Physics	5
MATH150 - Calculus and Analytic Geometry	5
MATH160 - Calculus and Analytic Geometry	4
MATH250 - Calculus and Analytic Geometry	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 Ald Counseling Division

RECOMMENDED PATHWAY AST - Physics

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			
Course		Units	
CSU A2: Engl 101	IGETC 1A: ENGL 101	3	
CSU B4: *MATH 150	IGETC 2: * MATH 150	5	
CSU E	Transferable Elective	3	
CSU D:#POLS 101	IGETC 4:#POLS 101	3	
	Total Units	14	

TERM 2		
Course		Units
MATH 160		4
CSU B1: * PHYS 110	IGETC 5A: *PHYS 110	4
CSU A3	IGETC 1B	3
CSU C1	IGETC 3A	3
	Total Units	14

	TERM 3	
Course		Units
MATH 250		4
PHYS 120		4
CSU A1:#COMM 101	IGETC 1C: (CSU ONLY)	3
CSU D:#HIST 107	IGETC 4:#HIST 110	3
CSU C2:#PHIL 105	IGETC 3H: #PHIL 105	3
	Total Units	17

	TERM 4	
Course		Units
PHYS 211		5
CSU C1/C2	IGETC 3A/H	4
CSU B2	IGETC 5B	3
CSU F:#ENGL 257	IGETC 7: #ENGL 257	3
	Total Units	15

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TRANSFER OPTION 1 - MIN GPA 3.0

[CSU - UC - PRIVATE - OUT OF STATE - OR UNSURE]

24-25 IGETC PLAN

[Intersegmental General Educational Transfer Curriculum]

Completion of all the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) may satisfy lower division general education requirements for students who transfer from Antelope Valley College to a campus in either the California State University or University of California system. The course requirements for all areas must be completed before the IGETC can be certified.

	University or University of California system. The course requirements for all areas must be completed before the IGETC can be certified.			
All co	ourses	must l	oe con	npleted with grades of "C" or better and may not be used in more () = Newly Approved, Effective Fall 2024
GE AREA	COMPLETED	IN PROGRESS	NEED	Advising Form Effective Fall 2024 - Summer 2025
				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
1A				Group A English Composition: ENGL 101, (101H)
1B				Group B Critical Thinking: ENGL 102,(102H), 103 (103H); PHIL 201
1C				Group C Oral Communication (CSU ONLY): COMM 101,(101H)
				L CONCEPTS AND QUANTITATIVE REASONING 4 quarter units
2A				MATH 110, 115, (115H), 116, 124, 128, 140, 148, 150, (150H),160, 220, 230, 250
				ANITIES its or 12 quarter units
At lea	ase one	cours	e from	3A, one from the 3B, and one additional course from either 3A or 3B ARTS: ART 100, 101, (101H),102, 103, 104, 106; DA 101; ENGL
3A				235; FXT 101, 107, 108, 201, 203; MUS 101,(101H),105; MUSC 102, 103, 107, 108; (109); THA 101,(101H), 110, 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,
3A				202; HIST 101, 102, 104, 105, 107,(107H), 108,(108H), 110,
or 3B				(110H), 111,(111H) 113, 115, 119; LATN 102, 201; PHIL 105, (105H), 106, 108, 109; PHOT 107; SPAN 110SS, 201, 202, 203, 210SS, 220SS; THA 239, (239H)
				HAVIORAL SCIENCE
	ent di			its or 8 quarter units. Courses shall be completed in at least 2
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 101, 102, 104, 105, 107, 107, 107, 107, 107, 107, 107, 107
4				107,(107H) 108,(108H), 110, (110H),111,(111H), 113, 114, 116, 118, 119; POLS 101,(101H) 103, 200, 202, 203; PSY 101, (101H),200, 201, 212, 230, 232, 233, 234, 235, 236; SOC 101, (101H),105, 110, 111, 112, 115, 116, 120, 200
				BIOLOGICAL SCIENCES
One p	hysica	l scien	ce cou	ed, 7 semester units or 9 quarter units urse and one biological science course; at least one course must C requirement
inctu	Je a la	J. # III	eets J	A: PHYSICAL SCIENCES: ASTR 101 (101H); CHEM 101#, 102#,
5A				110#, 120#, 210#, 220#; ERSC 101#; GEOG 101, 102; GEOL 101,(101H), 102; PHYS 101#, 102#, 110#, 120#, 211#; PSCI 101#
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 separately
5C				C: LABORATORY: ANTH 101L; ASTR 101L; BIOL 101L; GEOG 101L, 102L; GEOL 101L, 102L
OR ea	ciency arn a so	equiva core of t Test	lent to 3 or h	HER THAN ENGLISH (UC REQUIREMENT ONLY) two years of high school in the same language with a grade of "C" higher on the AP Foreign Language test, OR 550 on the College Board eign Language OR complete one of the foreign language courses
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
*Redu	action (of unit	s in Ar	51 course, 3 semester or 4 quarter units ea 4 and inclusion of Area 7 take effect for students matriculating at college beginning in Fall 2023
7				ENGL 257 or ETHN 257EN
(Not	part of	IGETO	, may	IREMENT IN U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS be completed prior to transfer). 2 courses, 6 semester units or 8 pply to Area 3B & 4.

HIST 107 & POLS 101; HIST 108 & POLS 101; HIST 110 & POLS

101; HIST 111 & POLS 101

TRANSFER OPTION 2 - MIN GPA 2.0

[CSU ONLY]

24-25 CSU PLAN

[CSU General Education Requirements]

Completion of all the requirements in the CSU General Education Breadth may satisfy lower 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 2024

GE AREA	COMPLETED	IN PROGRESS	NEED	Advising Form Effective Fall 2024 - Summer 2025
9 sem		units (12 qua	AGE COMMUNICATION AND CRITICAL THINKING arter units); One course in each Subareas A1, A2, and A3. Grade of "C" or A.
A1				A1 Oral Communication: COMM 101,(101H), 201
A2				A2 Written Communication: ENGL 101, (101H)
A3	D 661		6 11101	A3 Critical Thinking: COMM 110, 115; ENGL 102, (102H),103 (103H); PHIL 101, 106, 110, 201, (210)
units)	One co	urse e	ach in	JIRY AND QUANTITATIVE REASONING- 9 semester units (12 quarter Subareas B1, B2, and B4, plus laboratory activity (B3) related to one of Jurses. # meets B3 requirement
B1				B1 Physical Science: 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# B2 Life Science: ANTH 101,(101H); BIOL 101*#, 102#, 103#,
B2				104,(104H), 110#, 120#, 201#, 202#, 204#, 205# *# Must register for required lab component separately
В3				B3 Laboratory Activity: ANTH 101L; ASTR 101L; BIOL 101L; GEOG 101L, 102L; GEOL 101L, 102L
В4				B4 Mathematics/Quantitative Reasoning: Grade of "C" or better required in Area B4 MATH 103, 110, 115, (115H),116, 120, 124, 128, 131, 135, 140, 148, 150, (150H), 160, 220, 230, 250
				ANITIES- 9 semester units (12 quarter units) eas C1 and C2, and one additional course from either C1 or C2.
C1				C1 Arts: ART 100, 101, (101H),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,(101H), 105, (106),(110),111, 121, 126, 131, 132, 151, 153B, 160, 166, 185, 231,251A, 251B; MUSC 102, 103, 107, 108,(109), 142, 173, 220A, 273; PHTC 101, 150, 201; PHOT 107; THA 101, (101H),102, 110, 130, 225
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, 230, 231, 235, 242, 253,(253H), 256, 257, 259, 265, 279; FREN 101, 102, 201, 202, 203; FTV 201, 203, 251; GER 101, 102, 201, 202,
C1				HIST 101, 102, 104, 105, 107,(107H), 108,(108H), 110,(110H), 111,(111H), 113, 115, 118, 119; LATN 101, 102, 201;
or C2				MUSC 108; NF 150; PHIL 105,(105H), 106, 108, 109,(130), (140); PHOT 107; SPAN 101, 110SS, 102, 201, 202, 203, 210SS, 220SS; THA 239,(239H)
				E- 6 semester units (8 quarter units) ed in at least 2 different disciplines.
D1				AJ 206; ANTH 102, 103, 110, 112, (112H),140; BUS 212; CFE 102, 103; DFST 105, 106, 110; ECON 100, 101,(101H), 102,(102H)
D2				110; GEOG 105, 106, 110; HIST 101, 102, 104, 105, 107, (107H),108,(108H) 110,(110H), 111,(111H), 113, 114, 116, 118, 119; POLS 101, (101H),103, 200, 201, 202, 203; PSY 101, (101H),200, 201, 212, 230, 232, 233, 234, 235, 236; SOC
AREA	E: LIFE	ELONG	LEAR	101, (101H), 105, 110, 111, 112, 115, 116, 120, 200 NING & SELF-DEVELOPMENT- 3 semester units (4 quarter units) DD214
for 4		Basic A	Military	y Training notated on an official Military Transcript (e.g. CCAF, JST) may 0214
E				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
AREA	F: ETH	INIC ST	TUDIES	- 3 semester (4 quarter units)
F			1	ENGL 257 or ETHN 257EN, (ETHN 110), (ETHN 111), (ETHN 112), (ETHN 113)
	merica d D abo		iis- 6 s	emester (8 quarter units) Select one pair. Courses may also apply to Area
A.I.				HIST 107 & POLS 101; HIST 108 & POLS 101; HIST 110 & POLS 101; HIST 111 & POLS 101