



AS – Mechanical Engineering Technology to
BS – Mechanical Engineering Technology
2024-2025 Transfer Pathway



Alamo College District						
AS Degree Requirements						
Alamo	Course Name	SCH	TAMUCT	Alamo	Course Name	TAMUCT
EDUC 1300	Learning Framework	3	EDUC 1300	MATH 2414	Calculus II	4
ENGL 1301	Composition I	3	CORE 010	ENGR 1304	Engineering Graphics I	3
MATH 1414 or MATH 1314	College Algebra (Precal Track) or College Algebra	4	MATH 1414 or MATH 1314	PHYS 1401	General Physics I	4
CORE 050	Creative Arts Core	3	CORE 050	CORE 060	American History Core	3
ENGL 1302	Composition II	3	CORE 010	PHYS 1402	General Physics II	4
MATH 2412	Precalculus	4	MATH 2412	GOVT 2305	Federal Government	3
CHEM 1411	General Chemistry	4	CORE 030	CORE 040	Language, Philosophy & Culture Core	3
ENGR 1201	Introduction to Engineering	2	ENGR 1201	CORE 080	Social and Behavioral Sciences Core	3
MATH 2413	Calculus I	4	CORE 020	GOVT 2306	Texas Government	3
CORE 060	American History Core	3	CORE 060	ENGL 2311	Technical Writing	3
						Subtotal 66

Alamo College District or Texas A&M University – Central Texas			
Additional Lower-Level or Upper-Level Degree Requirements			
Alamo	TAMUCT	Course Name	SCH
ENGR 2301 ¹	ENGR 2301	Engineering Mechanics I - Statics	3
ENGR 2302 ¹	ENGR 2302	Engineering Mechanics II - Dynamics	3
ENGR 2305 or ENGR 2306 ¹	ENGR 2305 or ENGR 2306	Electrical Circuits I (Lecture) or Electrical Circuits II (Lecture)	3
ENGR 2332 or ENGT 2307 ¹	ENGR 2332 or ENGT 2307	Mechanics of Materials or Engineering Materials I	3
			Subtotal 12

Texas A&M University - Central Texas					
BS Degree Requirements					
TAMUCT	Course Name	SCH	TAMUCT	Course Name	SCH
ENGT 3305	Computer Aided Problem Solving	3	ENGT 4325	Senior Design A	3
ENGT 3306	Decision Making Models	3	ENGT 4307	Engineering Economics	3
ENGT 3310	Applied Thermodynamics	3	ENGT 4421	Solid Modeling	4
ENGT 3311	Fluid Mechanics	3	ENGT 3320	Quality Control Technology	3
ENGT 3302	Manufacturing Processes	3	ENGT 4326	Senior Design B	3
ENGT 3312	Heat Transfer	3	ENGT 4422	Electrical Power and Controls	4
ENGT 3213	Thermal Fluids Lab	2	UL ENGT Elective ²	Upper-Level ENGT Elective	9
ENGT 3415	Material Science	4			
				Subtotal 53	
				Total 131	

Notes/Comments

TAMUCT offers upper-level courses (those labeled 3XXX-5XXX), while all lower-level courses (those labeled 1XXX-2XXX) should be completed at Alamo. A minimum of 120 semester credit hours is required for all baccalaureate degrees. Pathways may exceed 120 semester credit hours, as certain courses required for the associate degree are transferable but not applicable to the baccalaureate degree. For help with pathway planning, please speak with an [academic advisor](#) or [enrollment specialist](#). *This pathway is intended for planning and visualization purposes and is subject to change.*

- The AS does not fulfill all the lower-level courses required for the undergraduate degree. Students will need to complete the remaining lower-level courses at Alamo. Please discuss the consortium agreement procedure with a TAMUCT [financial aid advisor](#).
- UL ENGT Electives is defined as the following courses: MATH 2320 or MATH 3306, MATH 3332, MATH 3360, MATH 3370, BUSI 3311, MGMT 3350, or MGMT 4370. Other ENGT electives can be added with approval from ENGT advisor.