



AS – Mathematics to
BS – Mathematics – Secondary Education Minor
2024-2025 Transfer Pathway



Alamo College District AS Degree Requirements							
Alamo	Course Name	SCH	TAMUCT	Alamo	Course Name	SCH	TAMUCT
EDUC 1300	Learning Framework	3	EDUC 1300	MATH 2414	Calculus II	4	MATH 2414
ENGL 1301	Composition I	3	CORE 010	PHYS 2425	University Physics I	4	CORE 030
MATH 1414 or MATH 1314	College Algebra (Precal Track) or College Algebra	3-4	MATH 1414 or MATH 1314	CORE 040	English Literature	3	CORE 040
CORE 050	Creative Arts Core	3	CORE 050	GOVT 2305	Federal Government	3	CORE 070
ENGL 1302	Composition II	3	CORE 010	MATH 2415	Calculus III	4	MATH 2415
MATH 2412	Precalculus	4	MATH 2412	MATH 2320	Differential Equations	3	MATH 2320
PSYC 2308	Child Psychology	3	CORE 080	GOVT 2306	Texas Government	3	CORE 070
HIST 1301	United States History I	3	CORE 060	PHYS 2426	University Physics II	4	CORE 030
MATH 2413	Calculus I	4	CORE 020	COSC 1301 COSC 1315 or COSC 1336	Introduction to Computing Introduction to Computer Programming or Programming Fundamentals I	3	COSC 1301 COSC 1315 or COSC 1336
HIST 1302	United States History II	3	CORE 060				
						Subtotal	63

Alamo College District or Texas A&M University – Central Texas Additional Lower-Level or Upper-Level Degree Requirements				
Alamo	TAMUCT	Course Name	SCH	
			Subtotal	0

Texas A&M University - Central Texas BS Degree Requirements						
TAMUCT	Course Name	SCH	TAMUCT	Course Name	SCH	
MATH 3301	Number Theory	3	MATH 3360	Numerical Analysis I	3	
MATH 3309	Algebraic Function	3	MATH 3370	An Introduction to Linear Programming	3	
MATH 3315	Mathematics & Technology	3	MATH 4302	College Geometry	3	
MATH 4304	Survey of Mathematical Ideas	3	MATH 3332	Linear Algebra	3	
MATH 4304L	Survey of Mathematical Ideas Lab	1	READ 3335	Content Area Reading	3	
MATH 4309	Advanced Analysis I	3	EDUC 4331	Curriculum & Instruction for Secondary Teachers	3	
MATH 3350	Principles of Bio-Statistics	3	EDUC 4332	Classroom Management for Secondary Teachers	3	
ENGL 3309	Tech Writing & Document Design	3	EDUC 4317	Assessment & Interpretation for Secondary Teachers	3	
MATH 3310	Discrete Mathematics	3	EDUC 4337	Educating Secondary Exceptional Learners	3	
MATH 3311	Probability & Statistics I	3	EDUC 4335	Capstone for Educators	3	
MATH 4332	Abstract Algebra	3	EDUC 4691	Clinical Teaching	6	
					Subtotal	67
					Total	130

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.*

- Students may speak with a Math Faculty advisor to have a substitution written for MATH 4305 which can be taken during the summer.
- Please note the following courses require a grade of 'C' or better: 12 credit hours of English, Calculus, approved Educational Psychology course, and 15 credit hours in the certification subject area.