



Alamo College District						
AS Degree Requirements						
Alamo	Course Name	SCH	TAMUCT	Alamo	Course Name	TAMUCT
EDUC 1300	Learning Framework	3	EDUC 1300	GOVT 2305	Federal Government	3
ENGL 1301	Composition I	3	CORE 010	MATH 2414	Calculus II	4
MATH 1414 or MATH 1314	College Algebra (Precal Track) or College Algebra	4	MATH 1414 or MATH 1314	PHYS 2425	University Physics I	4
COSC 1336	Programming Fundamentals I	3	CORE 090	CORE 050	Creative Arts Core	3
ENGL 1302 or ENGL 2311	Composition II or Technical Writing	3	CORE 010	GOVT 2306	Texas Government	3
MATH 2412	Precalculus	4	MATH 2412	PHYS 2426	University Physics II	4
COSC 1337	Programming Fundamentals II	3	CORE 090	MATH 1342	Elementary Statistical Methods	3
CORE 060	American History Core	3	CORE 060	CORE 040	Language, Philosophy & Culture Core	3
MATH 2413	Calculus I	4	CORE 020	CORE 080	Social and Behavioral Sciences Core	3
CORE 060	American History Core	3	CORE 060	MATH 2305	Discrete Mathematics	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
			0

Subtotal 0

Texas A&M University - Central Texas					
BS Degree Requirements					
TAMUCT	Course Name	SCH	TAMUCT	Course Name	SCH
CIS 3360	Ethics in Computing	3	COSC 3343	Computer Architecture	3
CIS 3330	C++ Programming	3	COSC 4379	Software Engineering for E-Business	3
CIS 3332	Java Programming				
CIS 3340	Advanced C++ Programming				
CIS 3342 or CIS 3343	Advanced Java Programming or C# Programming for Windows and the Web				
MATH 3360 or MATH 3332	Numerical Analysis I or Linear Algebra	3	COSC 3351	Data Structures	3
COSC 4341	Information Technology Security and Risk Management	3	COSC 4340	Analysis of Algorithms	3
COSC 3380	Operating Systems	3	COSC 4378	Computer Networks	3
COSC 4301	Database Theory and Practices	3	UL Electives ¹	Upper-Level Elective (Faculty Approved)	21
CIS 3347	Data Communications and Infrastructure	3	COSC 4090	Computer Science Capstone Assessment	0

Subtotal 57

Total 123

Notes/Comments	
<p>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.</p> <p>1. Upper-Level Faculty Approved Elective includes any CIS/COSC 3000 and 4000 level courses EXCEPT the following: CIS 3300, 3301, 3302, 3303, and all CS core courses.</p>	