AS – Computer Science to BS – Computer Science
2024-2025 Transfer Pathway

AS Degree Requirements							
Austin Community College							
ACC	**TAMUCT**	**Course Name**	**SCH**	**ACC**	**TAMUCT**	**Course Name**	**SCH**
HUMA 1301 or EDUC 1300	HUMA 1301 or EDUC 1300	Humanities: Prehistory to Renaissance or Learning Framework	3	GOVT 2305	CORE 070	United States Government	3
COSC 1336	CORE 090	Programming Fundamentals I	3	COSC 2436	COSC 2436	Programming Fundamentals III: Data Structures	4
ENGL 1301	CORE 010	English Composition I	3	PHYS 2425	CORE 030	University Physics I	4
MATH 2413	CORE 020	Calculus I	4	Literature	Literature	Literature	3
HIST 1301	CORE 060	United States History I	3	GOVT 2306	CORE 070	Texas State and Local Government	3
MATH 2414	MATH 2414	Calculus II	4	COSC 2325	COSC 2325	Computer Organization and Machine Language	3
ENGL 1302	CORE 010	English Composition II	3	PHYS 2426	CORE 030	University Physics II	4
PHIL 1301	CORE 040	Introduction to Philosophy	3	CORE 080	CORE 080	Social and Behavioral Sciences Core	3
HIST 1302	CORE 060	United States History II	3	CORE 050	CORE 050	Creative Arts Core	3
COSC 1337	CORE 090	Programming Fundamentals II	3				
						Subtotal	**62**

Additional Lower-Level Degree Requirements			
Austin Community College or Texas A&M University - Central Texas			
Austin Community College	**Texas A&M University - Central Texas**	**Course Name**	**SCH**
MATH 1342[1,2]	MATH 1342	Elementary Statistical Methods	3
MATH 2305[1,3]	MATH 2305	Discrete Mathematics	3
		Subtotal	**6**

Upper-Level Degree Requirements						
Texas A&M University - Central Texas (TAMUCT)						
TAMUCT	**Course Name**	**SCH**	**TAMUCT**	**Course Name**	**SCH**	
CIS 3360	Ethics in Computing	3	COSC 3343	Computer Architecture	3	
CIS 3330 CIS 3332 CIS 3340 CIS 3342 or CIS 3343	C++ Programming Java Programming Advanced C++ Programming Advanced Java Programming or C# Programming for Windows and the Web	3	COSC 4379	Software Engineering for E-Business	3	
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	COSC 4090	Computer Science Capstone Assessment	0	
CIS 3347	Data Communications and Infrastructure	3	Elective[4]	Upper-Level Faculty Approved Elective	21	
				Subtotal	**57**	
				Total	**125**	

Notes/Comments

TAMUCT offers upper-level courses (3xxx-5xxx labeled courses), all lower-level courses (1xxx-2xxx labeled courses) will need to be completed at ACC. A minimum of 120 semester credit hours is required for all baccalaureate degrees. Pathways may exceed 120 semester credit hours as some courses necessary 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.*

1. The AS does not fulfill all the lower-level courses required for the undergraduate degree. Students will need to complete these remaining lower-level courses at Austin Community College. Please discuss the consortium agreement procedure with a TAMUCT financial aid advisor.
2. Students may fulfill this degree requirement by enrolling MATH 3300 at TAMUCT.
3. Students may fulfill this degree requirement by enrolling MATH 3310 at TAMUCT.
4. 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.