



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



AS Degree Requirements							
McLennan Community College							
MCC	TAMUCT	Course Name	SCH	MCC	TAMUCT	Course Name	SCH
PSYC 1100 or EDUC 1100	PSYC 1100 or EDUC 1100	Learning Framework	1	GOVT 2305	CORE 070	Federal Government	3
ENGL 1301 or ENGL 2311	CORE 010	Composition I or Technical & Business Writing	3	PHYS 2425	CORE 030	University Physics I	4
COSC 1336	CORE 090	Programming Fundamentals I	3	CORE 040	CORE 040	Language, Philosophy, & Culture Core	3
MATH 2413	CORE 020	Calculus I	4	SPCH 1315 or SPCH 1321	CORE 010	Public Speaking or Business & Professional Communication	3
HIST 1301	CORE 060	United States History I	3	COSC 2336	COSC 2336	Programming Fundamentals III	3
BCIS 1305	BCIS 1305	Business Computer Applications	3	PHYS 2426	CORE 030	University Physics II	4
MATH 2414	MATH 2414	Calculus II	4	GOVT 2306	CORE 070	Texas Government	3
HIST 1302	CORE 060	United States History II	3	CORE 080	CORE 080	Social/Behavioral Science Core	3
CORE 050	CORE 050	Creative Arts Core	3	MATH 1342	MATH 1342	Elementary Statistical Methods	4
COSC 1337	CORE 090	Programming Fundamentals II	3				
Subtotal							60

Additional Lower-Level Degree Requirements			
McLennan Community College or Texas A&M University – Central Texas			
MCC	TAMUCT	Course Name	SCH
MATH 2305 ^{1,2}	MATH 2305	Discrete Mathematics	3
Subtotal			3

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	C++ Programming	3	COSC 4379	Software Engineering for E-Business	3	
CIS 3332	Java Programming					
CIS 3340	Advanced C++ Programming					
CIS 3342 or	Advanced Java Programming or					
CIS 3343	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	Upper-Level Faculty Approved Elective ³	Upper-Level Faculty Approved Elective	21	
CIS 3347	Data Communications and Infrastructure	3	COSC 4090	Computer Science Capstone Assessment	0	
					Subtotal	57
					Total	120

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 MCC. 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, students should speak with an [academic advisor](#) or [enrollment specialist](#). This pathway is intended for planning and visualization purposes only.

- The AS does not meet all the course requirements for the bachelor's degree. Students will need to complete the remaining lower-level courses at MCC. It is recommended to seek guidance from a [financial aid advisor](#) regarding the consortium agreement process.
- Students may also fulfill this degree requirement by enrolling in MATH 3310 at TAMUCT.
- 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.