



**AS – Computer Science to
BS – Computer Science
2023-2024 Transfer Pathway**



AS Degree Requirements							
McLennan Community College							
MCLENNAN	TAMUCT	Course Name	SCH	MCLENNAN	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 or Upper-Level Degree Requirements			
McLennan Community College or Texas A&M University – Central Texas			
McLennan Community College	Texas A&M University - Central Texas	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, 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	Upper-Level Faculty Approved Elective	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

Texas A&M University - Central Texas offers upper-level courses (3xxx-5xxx labeled courses), all lower-level courses (1xxx-2xxx labeled courses) will need to be completed at McLennan College. For help with pathway planning, student should speak with an [academic advisor](#). *This pathway is intended for planning and visualization purposes only.*

- Not all Degree Requirement courses are completed with the AS. Students will need to complete these remaining lower-level courses at McLennan College. Please discuss the consortium agreement procedure with a TAMUCT [financial aid advisor](#).
- Students may also fulfill this degree requirement by enrolling in MATH 3310 at TAMUCT.