



AS – Computer Science to BS – Computer Science 2022-2023 Transfer Pathway



AS Degree Requirements							
Central Texas College							
CTC	TAMUCT	Course Name	SCH	CTC	TAMUCT	Course Name	SCH
COSC 1301	COSC 1301	Introduction to Computing	3	COSC 1337	COSC 090	Programming Fundamentals II	3
COSC 1315	COSC 1315	Introduction to Computer Programming	3	COSC 2325	COSC 2325	Computer Organization	3
ENGL 1301	CORE 010	Composition I	3	COSC 050	COSC 050	Creative Arts Core Selection	3
MATH 2413	CORE 020	Calculus I	4	GOVT 2305	CORE 070	Federal Government	3
HIST 1301	CORE 060	United States History I	3	COSC 080	COSC 080	Social and Behavioral Sciences Core Selection	3
COSC 1336	CORE 090	Programming Fundamentals I	3	COSC 2336	COSC 2336	Programming Fundamentals III	3
SPCH 1318 or SPCH 1321	CORE 010	Interpersonal Communication or Business & Professional Communication	3	GOVT 2306	COSC 070	Texas Government	3
PHYS 2425	CORE 030	University Physics I	4	PHYS 2426	CORE 030	University Physics II	4
CORE 040	CORE 040	Language, Philosophy and Culture Core Selection	3	MATH 2414	MATH 2414	Calculus II	4
HIST 1302	CORE 060	United States History II	3				
Subtotal							61

Additional Lower-Level or Upper-Level Degree Requirements			
Central Texas College or Texas A&M – Central Texas			
Central Texas College	Texas A&M University - Central Texas	Course Name	SCH
MATH 1342 ^{1,2}	Degree Requirement	Elementary Statistical Methods	3
MATH 2305 ^{1,3}	Degree Requirement	Discrete Mathematics	3
Subtotal			6

Upper-Level Degree Requirements					
Texas A&M University - Central Texas					
Texas A&M University - Central Texas	Course Name	SCH	Texas A&M University - Central Texas	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			
Subtotal					57
Total					124

Notes/Comments

Texas A&M University - Central Texas only offers upper-level courses (3xxx-5xxx labeled courses), all lower-level courses (1xxx-2xxx labeled courses) will need to be completed at the Central Texas 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 Central Texas College. Please discuss the consortium agreement procedure with a TAMUCT [financial aid advisor](#).
- Students may also fulfill this degree requirement by enrolling in MATH 3300.
- Students may also fulfill this degree requirement by enrolling in MATH 3310.