



**AS – Computer Science to
BS – Computer Science
2025-2026 Transfer Pathway**



Austin Community College (ACC)

AS Degree Requirements

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

Austin Community College (ACC) or Texas A&M University–Central Texas (TAMUCT)

Additional Lower-Level Degree Requirements

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

Texas A&M University–Central Texas (TAMUCT)

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	COSC 4090	Computer Science Capstone Assessment	0
CIS 3347	Data Communications and Infrastructure	3	UL Elective	Upper-Level Elective (Faculty Approved)	21
Subtotal					57
Total					125

Notes/Comments

TAMUCT offers upper-level courses (those labeled 3XXX-5XXX), while all lower-level courses (those labeled 1XXX-2XXX) should 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 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.

- The AS does not fulfill all the lower-level courses required for the undergraduate degree. Students will need to complete the remaining lower-level courses at ACC. Please discuss the consortium agreement procedure with a TAMUCT [financial aid advisor](#).
- Students may fulfill this degree requirement by successfully completing MATH 3300 at TAMUCT.
- Students may fulfill this degree requirement by successfully completing MATH 3310 at TAMUCT.