



**AS – Computer Information Systems to
BS – Computer Information Systems –
Software Engineering and Database Design Concentration
2024-2025 Transfer Pathway**



Alamo College District							
AS Degree Requirements							
Alamo	Course Name	SCH	TAMUCT	Alamo	Course Name	SCH	TAMUCT
EDUC 1300	Learning Framework	3	EDUC 1300	ECON 2302	Principles of Microeconomics	3	CORE 080
ENGL 1301	Composition I	3	CORE 010	COSC 1336 or COSC 1320	Programming Fundamentals I or Programming in C	3	COSC 1336 or COSC 1320
MATH 1324	Mathematics for Business & Social Sciences	3	CORE 020	CORE 030	Life and Physical Sciences Core	3	CORE 030
COSC 1315	Introduction to Computer Programming	3	COSC 1315	CORE 060	American History Core	3	CORE 060
ENGL 1302 or ENGL 2311	Composition II or Technical Writing	3	CORE 090	GOVT 2306	Texas Government	3	CORE 070
BCIS 1305 or COSC 1301	Business Computer Applications or Introduction to Computing	3	BCIS 1305 or COSC 1301	SPCH 1311 SPCH 1315 or SPCH 1321	Introduction to Speech Communication Public Speaking or Business and Professional	3	CORE 010
CORE 050	Creative Arts Core	3	CORE 050	CORE 030	Life and Physical Sciences Core	3	CORE 030
Elective	Elective	3	Elective	CORE 040	Language, Philosophy & Culture Core	3	CORE 090
CORE 060	American History Core	3	CORE 060	Elective	Elective	3	Elective
CORE 040	Language, Philosophy & Culture Core	3	CORE 040	Elective	Elective	3	Elective
GOVT 2305	Federal Government	3	CORE 070	Elective	Elective	3	Elective
Subtotal							66

Alamo College District or Texas A&M University – Central Texas			
Additional Lower-Level or Upper-Level Degree Requirements			
Alamo	TAMUCT	Course Name	SCH
BUSI 2305 ¹	BUSI 2305	Business Statistics	3
CIS Elective ¹	CIS Elective	CIS Elective	3
Subtotal			6

Texas A&M University - Central Texas					
BS Degree Requirements					
TAMUCT	Course Name	SCH	TAMUCT	Course Name	SCH
CIS 3315	Web Site Development and Design	3	CIS 4301	Database Theory and Practices	3
CIS 3340 CIS 3341 CIS 3342 or CIS 3343	Advanced C++ Programming Advanced Visual Basic Programming Advanced Java Programming or C# Programming for Windows and the Web	3	CIS 3351	Data Structures	3
CIS 4341	Information Technology Security and Risk Management	3	CIS 4360	Strategic Information Systems	3
CIS 3347	Data Communications and Infrastructure	3	CIS 4340	Algorithm Design and Analysis	3
CIS 3360	Ethics in Computing	3	CIS 4352	Structured Query Language	3
CIS 4350	Management Information Systems	3	CIS 4379	Software Engineering for E-Business	3
CIS 4351	IS Project Management	3	CIS 4090	Computer Information Systems Capstone Assessment	0
CIS 3365	System Analysis and Design	3	UL CIS Elective or UL COSC Elective	Upper-Level CIS Elective or Upper-Level COSC Elective	6
Subtotal					48
Total					120

Notes/Comments

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

1. 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 Alamo. Please discuss the consortium agreement procedure with a TAMUCT [financial aid advisor](#).