



AAS – Network Administrator (NVC) to
BAAS – Information Technology –
Software and Database Design Concentration
2024-2025 Transfer Pathway



Alamo College District							
AAS Degree Requirements							
Alamo	Course Name	SCH	TAMUCT	Alamo	Course Name	SCH	TAMUCT
ITNW 1308 ¹	Implementing and Supporting Client Operating Systems	3	ITNW 1308	ITSY 2430 ¹	Intrusion Detection	4	ITSY 2430
ITCC 1414 ¹	CCNA 1: Introduction to Networks	4	ITCC 1414	ITCC 2343 ¹	Network Security	3	ITCC 2343
ITNW 1425 ¹	Fundamentals of Networking Technologies	4	ITNW 1425	ITSC 2325 ¹	Advanced Linux	3	ITSC 2325
ITCC 1444 ¹	CCNA 2: Switching, Routing, and Wireless Essentials	4	ITCC 1444	ITNW 2264 ¹	Practicum – Computer Systems Networking and Telecommunications	2	ITNW 2264
ITNW 1454 ¹	Implementing and Supporting Servers	4	ITNW 1454	MATH 1324	Mathematics for Business & Social Sciences	3	CORE 020
ITSC 1316 ¹	Linux Installation and Configuration	3	ITSC 1316	CORE 060	American History Core	3	CORE 060
CORE 010	Communications Core	3	CORE 090	GOVT 2305	Federal Government	3	CORE 070
ENGL 1301	Composition I	3	CORE 010	CORE 060	American History Core	3	CORE 060
CORE 040	Language, Philosophy & Culture Core	3	CORE 040	ENGL 1302 or ENGL 2311	Composition II or Technical Writing	3	CORE 010
CORE 080	Social and Behavioral Sciences Core	3	CORE 080	GOVT 2306	Texas Government	3	CORE 070
ITSY 1300 ¹	Fundamentals of Information Security	3	ITSY 1300	COSC 1336	Programming Fundamentals I	3	CORE 090
ITNW 2473 ¹	Amazon Cloud Foundations (AWS)	4	ITNW 2473	CORE 030	Life and Physical Sciences Core	3	CORE 030
ITCC 2420 ¹	CCNA 3: Enterprise Networking, Security, and Automation	4	ITCC 2420	CORE 050	Creative Arts Core	3	CORE 050
						Subtotal	84

Alamo College District or Texas A&M University – Central Texas			
Additional Lower-Level or Upper-Level Degree Requirements			
Alamo	TAMUCT	Course Name	SCH
CORE 030 ²	CORE 030	Life and Physical Sciences Core	3
BUSI 2305 ²	BUSI 2305	Business Statistics	3
			Subtotal
			6

Texas A&M University - Central Texas					
BAAS Degree Requirements					
TAMUCT	Course Name	SCH	TAMUCT	Course Name	SCH
CIS 3347	Data Communications and Infrastructure	3	CIS 3351	Data Structures	3
CIS 3340	Advanced C++ Programming	3	CIS 4360	Strategic Information Systems	3
CIS 3341	Advanced Visual Basic Programming				
CIS 3342 or CIS 3343	Advanced Java Programming or C# Programming for Windows and the Web				
CIS 3360	Ethics in Computing	3	CIS 4340	Algorithm Design and Analysis	3
CIS 3365	System Analysis and Design	3	CIS 4352	Structured Query Language	3
CIS 4301	Database Theory and Practices	3	CIS 4379	Software Engineering for E-Business	3
CIS 4341	Information Technology Security and Risk Management	3	UL CIS Elective	Upper-Level CIS Elective	3
CIS 4350	Management Information Systems	3	CIS 4090	Computer Information Systems Capstone Assessment	0
					Subtotal
					39
					Total
					129

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.

- For the Occupational/Technical Specialization credits, students must have a minimum of 12 semester credit hours consisting of technical, occupational, and military training and many include academic electives to complete the maximum allowable 36 semester credit hours.
- 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](#).