



**AAS – Cybersecurity and Information Assurance 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	TAMUCT
ITCC 1414 ¹	CCNA 1: Introduction to Networks	4	ITCC 1414	CORE 040	Language, Philosophy & Culture Core	CORE 040
ITCC 1444 ¹	CCNA 2: Switching, Routing, and Wireless Essentials	4	ITCC 1444	ITSY 2286 ¹	Internship - Computer and Information Systems Security	ITSY 2286
ITNW 1308 ¹	Implementing and Supporting Client Operating Systems	3	ITNW 1308	ITSY 2442 ¹	Incident Response and Handling	ITSY 2442
CORE 080	Social and Behavioral Sciences Core	3	CORE 080	ITCC 2343 ¹	Network Security	ITCC 2343
CORE 010	Communications Core	3	CORE 090	ENGL 1302 or ENGL 2311	Composition II or Technical Writing	CORE 010
ITSC 1316 ¹	Linux Installation and Configuration	3	ITSC 1316	CORE 050	Creative Arts Core	CORE 050
ITSY 1300 ¹	Fundamentals of Information Security	3	ITSY 1300	GOVT 2305	Federal Government	CORE 070
ITNW 2473 ¹	Amazon Cloud Foundations (AWS)	4	ITNW 2473	COSC 1336	Programming Fundamentals I	CORE 090
ITSC 2325 ¹	Advanced Linux	3	ITSC 2325	CORE 060	American History Core	CORE 060
ENGL 1301	Composition I	3	CORE 010	CORE 030	Life and Physical Sciences Core	CORE 030
ITSY 2443 ¹	Computer System Forensics	4	ITSY 2443	GOVT 2306	Texas Government	CORE 070
CORE 020	Mathematics Core	3	CORE 020	CORE 060	American History Core	CORE 060
ITCC 2420 ¹	CCNA 3: Enterprise Networking, Security, and Automation	4	ITCC 2420	CORE 030	Life and Physical Sciences Core	CORE 030
ITSY 2430 ¹	Intrusion Detection	4	ITSY 2430			
						Subtotal 87

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 ²	BUSI 2305	Business Statistics	3
			Subtotal 3

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 AAS 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](#).