



**AAS – Cyber Defense to  
BAAS – Information Technology –  
Data Analytics Concentration  
2024-2025 Transfer Pathway**



Alamo College District							
AAS Degree Requirements							
Alamo	Course Name	SCH	TAMUCT	Alamo	Course Name	SCH	TAMUCT
ITNW 1308 <sup>2</sup>	Implementing and Supporting Client Operating Systems	3	ITNW 1308	SPCH 1321	Business and Professional Communication	3	CORE 090
ITNW 1425 <sup>2</sup>	Fundamentals of Networking Technologies	4	ITNW 1425	CORE 040	Language, Philosophy & Culture Core	3	CORE 040
ITSC 1316 <sup>2</sup>	Linux Installation and Configuration	3	ITSC 1316	ITSY 2430 <sup>2</sup>	Intrusion Detection	4	ITSY 2430
ENGL 1301	Composition I	3	CORE 010	ITSY 2442 <sup>2</sup>	Incident Response and Handling	4	ITSY 2442
COSC 1436	Programming Fundamentals I	4	CORE 090	ITSY 2286 <sup>2</sup>	Internship - Computer and Information Systems Security	2	ITSY 2286
ITSY 1342 <sup>2</sup>	Information Technology Security	4	ITSY 1342	CORE 030	Life and Physical Sciences Core	3	CORE 030
ITSY 2443 <sup>2</sup>	Computer System Forensics	4	ITSY 2443	GOVT 2305	Federal Government	3	CORE 070
ITNW 2412 <sup>2</sup>	Routers	4	ITNW 2412	CORE 060	American History Core	3	CORE 060
CORE 020	Mathematics Core	3	CORE 020	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 2301 <sup>2</sup>	Firewalls and Network Security	3	ITSY 2301	CORE 050	Creative Arts Core	3	CORE 050
ITSC 2325 <sup>2</sup> or COSC 1437	Advanced Linux or Programming Fundamentals II	3	ITSC 2325 or COSC 1437	CORE 060	American History Core	3	CORE 060
ITNW 2405 <sup>2</sup>	Network Administration	4	ITNW 2405	CORE 030	Life and Physical Sciences Core	3	CORE 030
							<b>Subtotal 85</b>

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 <sup>1</sup>	BUSI 2305	Business Statistics	3
			<b>Subtotal 3</b>

Texas A&M University - Central Texas					
BAAS Degree Requirements					
TAMUCT	Course Name	SCH	TAMUCT	Course Name	SCH
CIS 3302	Introduction to Business Analytics	3	CIS 3365	System Analysis and Design	3
CIS 3306	Data Visualization	3	CIS 4301	Database Theory and Practices	3
CIS 4341	Information Technology Security and Risk Management	3	CIS 4352	Structured Query Language	3
CIS 3347	Data Communications and Infrastructure	3	CIS 4303	Data Mining	3
CIS 3360	Ethics in Computing	3	CIS 4360	Strategic Information Systems	3
CIS 4350	Management Information Systems	3	UL CIS Elective	Upper-Level CIS Elective	3
CIS 4302	Web & Social Analytics	3	CIS 4090	Computer Information Systems Capstone Assessment	0
					<b>Subtotal 39</b>
					<b>Total 127</b>

**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.*

- 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](#).
- 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.