AAS – Cyberdefense – Information Assurance to BAAS – Information Technology Software and Database Design Concentration 2025-2026 Transfer Pathway

Central Texas College AAS Degree Requirements							
CTC	**Course Name**	**SCH**	**TAMUCT**	**CTC**	**Course Name**	**SCH**	**TAMUCT**
COSC 1301	Introduction to Computing	3	*CORE 090*	ITSY 2301[1]	Firewalls and Network Security Design	3	*ITSY 2301*
BCIS 1305	Business Computer Applications	3	*BCIS 1305*	ITNW 1337[1]	Introduction to the Internet	3	*ITNW 1337*
ITNW 1325[1]	Fundamentals of Networking Technologies	3	*ITNW 1325*	ITNW 1316[1]	Introduction to Network Administration	3	*ITNW 1316*
ENGL 1301	Composition I	3	*CORE 010*	ITSC 1316[1]	Linux Installation and Configuration	3	*ITSC 1316*
CORE 020	Mathematics Core	3	*CORE 020*	CORE 080	Social and Behavioral Sciences Core	3	*CORE 080*
ITSC 1325[1]	Personal Computer Hardware	3	*ITSC 1325*	ITSC 1315[1]	IT Project Management	3	*ITSC 1315*
ITNW 1309[1]	Fundamentals of Cloud Computing	3	*ITNW 1309*	COSC 1315	Introduction to Computer Programming	3	*COSC 1315*
ITSY 1342[1]	Information Technology Security	3	*ITSY 1342*	ITSY 2345[1]	Network Defense and Countermeasures	3	*ITSY 2345*
ITNW 1308[1]	Implementing and Supporting Client Operating Systems	3	*ITNW 1308*	ENGL 2311	Technical and Business Writing	3	*CORE 010*
CORE 050	Creative Arts Core	3	*CORE 050*	ITSY 2359 or ITNW 2388[1]	Security Assessment and Auditing or Internship - Computer Systems Networking and Telecommunications	3	*ITSY 2359 or ITNW 2388*
						Subtotal	**60**

Central Texas College or Texas A&M University – Central Texas Additional Lower-Level Degree Requirements			
Central Texas College	**Texas A&M University – Central Texas**	**Course Name**	**SCH**
CORE 030[2]	CORE 030	Life and Physical Science Core	3
CORE 030[2]	CORE 030	Life and Physical Science Core	3
CORE 040[2]	CORE 040	Language, Philosophy, and Culture Core	3
CORE 060[2]	CORE 060	American History Core	3
CORE 060[2]	CORE 060	American History Core	3
CORE 070[2]	CORE 070	Government/Political Science Core	3
CORE 070[2]	CORE 070	Government/Political Science Core	3
COSC 1320 or COSC 1336[2]	CORE 090	C Programming I or Programming Fundamentals I	3
BUSI 2305[2,3]	BUSI 2305	Business Statistics	3
		Subtotal	**27**

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 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 4360	Strategic Information Systems	3
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	**126**

Notes/Comments

TAMUCT offers upper-level courses (those labeled 3XXX-5XXX), while all lower-level courses (those labeled 1XXX-2XXX) should be completed at CTC. 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. 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.
2. 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 CTC. Please discuss the consortium agreement procedure with a TAMUCT financial aid advisor.
3. Students may fulfill this degree requirement by successfully completing in BUSI 3311 at TAMUCT.