



**AAS – Cyberdefense – Information Assurance to
BAAS – Information Technology
Software and Database Design Concentration
2023-2024 Transfer Pathway**



AAS Degree Requirements							
Central Texas College							
CTC	TAMUCT	Course Name	SCH	CTC	TAMUCT	Course Name	SCH
COSC 1301	CORE 090	Introduction to Computing	3	ITSY 2401 ²	VO--	Firewalls and Network Security	4
ITSC 1316 ²	VO--	Linux Installation and Configuration	3	ITNW 1313 ²	VO--	Computer Virtualization	3
ITNW 1325 ²	VO--	Fundamentals of Networking Technologies	3	ITSY 1342 ²	VO--	Information Technology Security	3
ENGL 1301	CORE 010	Composition I	3	GOVT 2305 or GOVT 2306	CORE 070	Federal Government or Texas Government	3
CORE 020	CORE 020	Mathematics Core	3	SPCH 1318 or SPCH 1321	CORE 010	Interpersonal Communication or Business and Professional Communication	3
ITNW 1316 ²	VO--	Network Administration	3	ITSY 2345 ²	VO--	Network Defense and Countermeasures	3
ITSE 1359 ²	VO--	Introduction to Scripting Languages	3	CORE 050	CORE 050	Creative Arts Core	3
ITNW 1309 ²	VO--	Fundamentals of Cloud Computing	3	ITNW 1454 ²	VO--	Implementing and Supporting Servers	4
CORE 040	CORE 040	Language, Philosophy and Culture Core	3	ITSY 2459 ²	VO--	Security Assessment and Auditing	4
CORE 080	CORE 080	Social and Behavioral Science Selection Core	3				
Subtotal							60

Additional Lower-Level Degree Requirements			
Central Texas College			
Central Texas College	Texas A&M University - Central Texas	Course Name	SCH
CORE 030 ¹	CORE 030	Life and Physical Science Core	3
CORE 030 ¹	CORE 030	Life and Physical Science Core	3
CORE 060 ¹	CORE 060	American History Core	3
CORE 060 ¹	CORE 060	American History Core	3
CORE 070 ¹	CORE 070	Government/Political Science Core	3
COSC 1320 or COSC 1336 ^{1,3}	CORE 090	C Programming I or Programming Fundamentals I	3
BUSI 2305 ^{1,4}	BUSI 2305	Business Statistics	3
Subtotal			21

Upper-Level Degree Requirements					
Texas A&M University - Central Texas					
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	CIS Elective	Upper-Level CIS Elective	3
CIS 4350	Management Information Systems	3	CIS 4090	Computer Information Systems Capstone Assessment	0
Subtotal					39
Total					120

Notes/Comments

Texas A&M University - Central Texas (TAMUCT) only offers upper-level courses (3xxx-5xxx labeled courses), all lower-level courses (1xxx-2xxx labeled courses) will need to be completed at Central Texas College (CTC). A minimum of 120 semester credit hours is required for all baccalaureate degrees. Pathways may exceed 120 semester credit hours as some courses necessary for the associate degree are transferable but not applicable to the baccalaureate degree. For help with pathway planning, students should speak with an [academic advisor](#).

- The AAS does not fulfill all the lower-level courses required for the undergraduate degree. Students will need to complete these remaining lower-level courses at CTC. 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.
- Students may fulfill this degree requirement by enrolling in CIS 3330, CIS 3331 or CIS 3332 at TAMUCT.
- Students may fulfill this degree requirement by enrolling in BUSI 3311 at TAMUCT.