



AAS – Cyber Defense 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 ² | Implementing and Supporting Client Operating Systems | 3 | ITNW 1308 | SPCH 1321 | Business and Professional Communication | 3 | CORE 090 |
| ITNW 1425 ² | Fundamentals of Networking Technologies | 4 | ITNW 1425 | CORE 040 | Language, Philosophy & Culture Core | 3 | CORE 040 |
| ITSC 1316 ² | Linux Installation and Configuration | 3 | ITSC 1316 | ITSY 2430 ² | Intrusion Detection | 4 | ITSY 2430 |
| ENGL 1301 | Composition I | 3 | CORE 010 | ITSY 2442 ² | Incident Response and Handling | 4 | ITSY 2442 |
| COSC 1436 | Programming Fundamentals I | 4 | CORE 090 | ITSY 2286 ² | Internship - Computer and Information Systems Security | 2 | ITSY 2286 |
| ITSY 1342 ² | Information Technology Security | 4 | ITSY 1342 | CORE 030 | Life and Physical Sciences Core | 3 | CORE 030 |
| ITSY 2443 ² | Computer System Forensics | 4 | ITSY 2443 | GOVT 2305 | Federal Government | 3 | CORE 070 |
| ITNW 2412 ² | 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 ² | Firewalls and Network Security | 3 | ITSY 2301 | CORE 050 | Creative Arts Core | 3 | CORE 050 |
| ITSC 2325 ² 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 ² | Network Administration | 4 | ITNW 2405 | CORE 030 | Life and Physical Sciences Core | 3 | CORE 030 |
| | | | | | | | Subtotal 85 |

| 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 ¹ | 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 127 |

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.