# AS – Computer Science to BS – Computer Science 2025-2026 Transfer Pathway

| Central Texas College | | | | | | | |
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| **AS Degree Requirements** | | | | | | | |
| **CTC** | **Course Name** | **SCH** | **TAMUCT** | **CTC** | **Course Name** | **SCH** | **TAMUCT** |
| COSC 1301 | Introduction to Computing | 3 | COSC 1301 | COSC 1337 | Programming Fundamentals II | 3 | *CORE 090* |
| COSC 1315 | Introduction to Computer Programming | 3 | COSC 1315 | COSC 2325 | Computer Organization | 3 | COSC 2325 |
| ENGL 1301 | Composition I | 3 | *CORE 010* | CORE 050 | Creative Arts Core | 3 | *CORE 050* |
| MATH 2413 | Calculus I | 3 | *CORE 020* | GOVT 2305 | Federal Government | 3 | *CORE 070* |
| HIST 1301 | United States History I | 3 | *CORE 060* | CORE 080 | Social and Behavioral Sciences Core | 3 | *CORE 080* |
| COSC 1336 | Programming Fundamentals I | 3 | *CORE 090* | COSC 2336 | Programming Fundamentals III | 3 | COSC 2336 |
| SPCH 1318 or SPCH 1321 | Interpersonal Communication or Business & Professional Communication | 3 | *CORE 010* | GOVT 2306 | Texas Government | 3 | *CORE 070* |
| PHYS 2425 | University Physics I | 4 | *CORE 030* | PHYS 2426 | University Physics II | 4 | *CORE 030* |
| CORE 040 | Language/Philosophy/Culture Core | 3 | *CORE 040* | MATH 2414 | Calculus II | 4 | *MATH 2414* |
| HIST 1302 | United States History II | 3 | *CORE 060* | | | | |
| | | | | | | **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** |
| MATH 1342[1,2] | MATH 1342 | Elementary Statistical Methods | 3 |
| MATH 2305[1,3] | MATH 2305 | Discrete Mathematics | 3 |
| | | **Subtotal** | **6** |

| Texas A&M University - Central Texas | | | | | |
|---|---|---|---|---|---|
| **BS Degree Requirements** | | | | | |
| **TAMUCT** | **Course Name** | **SCH** | **TAMUCT** | **Course Name** | **SCH** |
| CIS 3360 | Ethics in Computing | 3 | COSC 3343 | Computer Architecture | 3 |
| CIS 3330<br>CIS 3332<br>CIS 3340<br>CIS 3342 or<br>CIS 3343 | C++ Programming<br>Java Programming<br>Advanced C++ Programming<br>Advanced Java Programming or<br>C# Programming for Windows and the Web | 3 | COSC 4379 | Software Engineering for E-Business | 3 |
| MATH 3360 or MATH 3332 | Numerical Analysis I or Linear Algebra | 3 | COSC 3351 | Data Structures | 3 |
| COSC 4341 | Information Technology Security and Risk Management | 3 | COSC 4340 | Analysis of Algorithms | 3 |
| COSC 3380 | Operating Systems | 3 | COSC 4378 | Computer Networks | 3 |
| COSC 4301 | Database Theory and Practices | 3 | UL Faculty Approved Elective[3] | Upper-Level Faculty Approved Elective | 21 |
| CIS 3347 | Data Communications and Infrastructure | 3 | COSC 4090 | Computer Science Capstone Assessment | 0 |
| | | | | **Subtotal** | **57** |
| | | | | **Total** | **123** |

## 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. The **AS** 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.
2. Students may fulfill this degree requirement by successfully completing in MATH 3300 at TAMUCT.
3. Students may fulfill this degree requirement by successfully completing in MATH 3310 at TAMUCT.
4. Upper-Level Faculty Approved Elective includes any CIS/COSC 3000 and 4000 level courses EXCEPT the following: CIS 3300, 3301, 3302, 3303, and all CS core courses.