# Bachelor of Science
# Computer Science
# 2024-2025 Transfer Guide

## Core Requirements
### (Transfer Credits)

| Transferring Institution | Texas A&M University - Central Texas | Course Name | SCH |
|---|---|---|---|
| CORE 010[1] | CORE 010 | Communications Core | 3 |
| CORE 010[1] | CORE 010 | Communications Core | 3 |
| MATH 2413 | CORE 020 | Calculus I | 4 |
| PHYS 2425 | CORE 030 | University Physics I | 4 |
| PHYS 2426 | CORE 030 | University Physics II | 4 |
| CORE 040[1] | CORE 040 | Language, Philosophy, and Culture Core | 3 |
| CORE 050[1] | CORE 050 | Creative Arts 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 |
| CORE 070[1] | CORE 070 | Government/Political Science Core | 3 |
| CORE 080[1] | CORE 080 | Social and Behavioral Sciences Core | 3 |
| COSC 1336 | CORE 090 | Programming Fundamentals I | 3 |
| COSC 1337 | CORE 090 | Programming Fundamentals II | 3 |
| | | **Subtotal** | **45** |

## Additional Lower-Level Degree Requirements
### (Transfer Credits)

| Transferring Institution | Texas A&M University - Central Texas | Course Name | SCH |
|---|---|---|---|
| Any Level Elective[2,3,4] | Any Level Elective | Any Level Elective | 8 |
| MATH 1342[5] | MATH 1342 | Elementary Statistical Methods | 3 |
| MATH 2305[6] | MATH 2305 | Discrete Mathematics | 3 |
| MATH 2414 | MATH 2414 | Calculus II | 4 |
| | | **Subtotal** | **18** |

## Upper-Level Degree Requirements
### Texas A&M University - Central Texas (TAMUCT)

| 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<br>MATH 3332 | Numerical Analysis I or<br>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 | COSC 4090 | Computer Science Capstone Assessment | 0 |
| CIS 3347 | Data Communications and Infrastructure | 3 | Upper-Level Elective[7] | Upper-Level Elective - Faculty Approved | 21 |
| | | | | **Subtotal** | **57** |
| | | | | **Total** | **120** |

## Notes/Comments

**Texas A&M University - Central Texas only offers upper-level courses (3xxx-5xxx labeled courses), all lower-level courses (1xxx-2xxx labeled courses) will need to be completed at the transferring institution. For help with pathway planning, student should speak with an academic advisor.** *This pathway is intended for planning and visualization purposes only.*

1. Refer to the General Education Core Requirements **page** for more information on the CORE Requirement coursework.
2. Any-level electives may be taken at either at Texas A&M University-Central Texas or another institution. Please consult an academic advisor prior to selecting any-level electives.
3. Lower-Level Electives, Any Level Electives, Component Area Options, or Degree Requirements (DEG REQ) may consist of the FOS courses: MATH 2413, MATH 2414, MATH 2305, COSC 1436, COSC 1437, COSC 2436, PHYS 2425, PHYS 2426 (or 3 credit hour lecture and 1 hour lab courses for PHYS), one of the following: COSC 2325, COSC 2425.
4. A student may need to take foundation courses such as algebra, trigonometry, or pre-calculus before taking the required calculus courses. A student may apply up to 6 hours of these foundation courses as electives in the Lower-level Course Requirements
5. Students can also fulfill this degree requirement by enrolling in MATH 3300 at Texas A&M University - Central Texas.
6. Students can also fulfill this degree requirement by enrolling in MATH 3310 at Texas A&M University - Central Texas.
7. 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.

TEXAS A&M UNIVERSITY CENTRAL TEXAS