Bachelor of Science – Computer Science

2026-2027 Transfer Guide

Texas A&M University–Central Texas

The courses outlined in this section provide a year-by-year guide for full-time students, fulfilling the requirements for the **Bachelor of Science – Computer Science** at Texas A&M University–Central Texas. All guides can be adjusted to accommodate the needs of part-time students. For the official degree requirements, please refer to the Texas A&M University–Central Texas **catalog.**

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

YEAR 1	TOTAL HOURS:32
CORE 010[1] – Communications	3 SCH
MATH 2413 – Calculus I (CORE 020)	4 SCH
CORE 060[1] – American History	3 SCH
CORE 080[1] – Social and Behavioral Science	3 SCH
ELECTIVE[2,3,4] – Any Level Elective	3 SCH
CORE 010[1] – Communications	3 SCH
CORE 060[1] – American History	3 SCH
CORE 050[1] – Creative Arts	3 SCH
MATH 2414 – Calculus II	4 SCH
ELECTIVE[2,3,4] – Any Level Elective	3 SCH
YEAR 2	**TOTAL HOURS:28**
PHYS 2425 – University Physics I (CORE 020)	4 SCH
COSC 1336 – Programming Fundamentals I (CORE 090)	3 SCH
CHOOSE ONE: MATH 1342 – Elementary Statistical Methods ***or*** **MATH 3300** – Principles of Statistics	3 SCH
CORE 070[1] – Government/Political Science	3 SCH
PHYS 2426 – University Physics II (CORE 030)	4 SCH
COSC 1337 – Programming Fundamentals II (CORE 090)	3 SCH
CORE 070[1] – Government/Political Science	3 SCH
CORE 040[1] – Language, Philosophy, and Culture	3 SCH
ELECTIVE[2,3,4] – Any Level Elective	2 SCH
YEAR 3	**TOTAL HOURS:30**
CHOOSE ONE: MATH 2305 – Discrete Mathematics ***or*** **MATH 3310** – Discrete Mathematics	3 SCH
CIS 3360 – Ethics in Computing	3 SCH
CHOOSE ONE: **CIS 3330** – C++ Programming **CIS 3332** – Java Programming **CIS 3340** – Advanced C++ Programming **CIS 3342** – Advanced Java Programming ***or*** **CIS 3343** – C# Programming for Windows and the Web	3 SCH
CHOOSE ONE: **MATH 3360** – Numerical Analysis I ***or*** **MATH 3332** – Linear Algebra	3 SCH
COSC 4341 – Information Technology Security and Risk Management	3 SCH
COSC 3380 – Operating Systems	3 SCH
COSC 4301 – Database Theory and Practices	3 SCH
CIS 3347 – Data Communications and Infrastructure	3 SCH
ELECTIVE: Upper-Level Faculty Approved Elective	3 SCH
ELECTIVE: Upper-Level Faculty Approved Elective	3 SCH
YEAR 4	**TOTAL HOURS:30**
COSC 3343 – Computer Architecture	3 SCH

COSC 4379 – Software Engineering for E-Business	3 SCH
COSC 3351 – Data Structures	3 SCH
ELECTIVE[5]: Upper-Level Faculty Approved Elective	3 SCH
ELECTIVE[5]: Upper-Level Faculty Approved Elective	3 SCH
COSC 4340 – Analysis of Algorithms	3 SCH
COSC 4378 – Computer Networks	3 SCH
ELECTIVE[5]: Upper-Level Faculty Approved Elective	3 SCH
ELECTIVE[5]: Upper-Level Faculty Approved Elective	3 SCH
ELECTIVE[5]: Upper-Level Faculty Approved Elective	3 SCH
COSC 4090 – Computer Science Capstone Assessment	0 SCH

TOTAL CREDITS: 120 HOURS

NOTES

Texas A&M–Central Texas only offers upper-level courses (those labeled 3XXX-5XXX), all lower-level courses (those labeled 1XXX-2XXX) should be completed at the transferring institution. A minimum of 120 semester credit hours is required for all baccalaureate degrees. For help with transfer planning, please speak with an **academic advisor** or **enrollment specialist**. ***This transfer guide is intended for planning and visualization purposes and is subject to change.***

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. 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.