Bachelor of Science
Computer Information Systems – Data Analytics Concentration
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 in Computer Information Systems with a Data Analytics Concentration** 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 INFORMATION SYSTEMS WITH A DATA ANALTICS CONCENTRATION

YEAR 1	TOTAL HOURS:30
CORE 010[1] – Communication	3 SCH
CORE 020[1,3] – Mathematics	3 SCH
CORE 060[1] – American History	3 SCH
ECON 2302 – Principles of Microeconomics (CORE 080)	3 SCH
ELECTIVE[1,2,3] – Any Level Elective	3 SCH
CHOOSE ONE: **SPCH 1311** – Introduction to Speech Communication (CORE 010) **SPCH 1315** – Public Speaking ***or*** **SPCH 1321** – Business & Professional Communication	3 SCH
CORE 050[1] – Creative Arts	3 SCH
CORE 060[1] – American History	3 SCH
CORE 090[1,3] – Component Area Option	3 SCH
ELECTIVE[1,2,3] – Any Level CIS Elective	3 SCH
YEAR 2	**TOTAL HOURS:30**
CORE 030[1,3] – Life and Physical Sciences	3 SCH
CORE 070[1] – Government/Political Science	3 SCH
CORE 090[1,3] – Component Area Option	3 SCH
ELECTIVE[1,2,3] – Any Level Elective	3 SCH
ELECTIVE[1,2,3] – Any Level Elective	3 SCH
CORE 030[1,3] – Life and Physical Sciences	3 SCH
CORE 040[1] – Language, Philosophy, and Culture	3 SCH
CORE 070[1] – Government/Political Science	3 SCH
ELECTIVE[1,2,3] – Any Level Elective	3 SCH
ELECTIVE[1,2,3] – Any Level Elective	3 SCH
YEAR 3	**TOTAL HOURS:30**
CHOOSE ONE: CIS 3300[3] – Computer Technology and Impact BCIS 1305 – Business Computer Applications ***or*** COSC 1301 – Introduction to Computing	3 SCH
CHOOSE ONE: CIS 3303 – Programming Logic and Design ***or*** COSC 1315 – Fundamentals of Programming	3 SCH
CIS 3315 – Web Site Development and Design	3 SCH
CIS 3302 – Introduction to Business Analytics	3 SCH
CHOOSE ONE: **CIS 3330**[3] – C++ Programming **CIS 3331** – Visual Basic Programming **CIS 3332** – Java Programming **COSC 1320** – C Programming I ***or*** **COSC 1336** – Programming Fundamentals I	3 SCH
ELECTIVE[3] – Upper-Level CIS Elective ***or***	

Upper-Level COSC Elective	3 SCH
BUSI 3311 – Business Statistics	3 SCH
CIS 4341 – Information Technology Security and Risk Management	3 SCH
CIS 3347 – Data Communications and Infrastructure	3 SCH
CIS 3306 – Data Visualization	3 SCH
YEAR 4	**TOTAL HOURS:30**
CIS 4350 – Management Information Systems	3 SCH
CIS 4301 – Database Theory and Practices	3 SCH
CIS 3365 – System Analysis and Design	3 SCH
CIS 4302 – Web & Social Analytics	3 SCH
CIS 3360 – Ethics in Computing	3 SCH
CIS 4360 – Strategic Information Systems	3 SCH
CIS 4352 – Structured Query Language	3 SCH
CIS 4351 – IS Project Management	3 SCH
CIS 4303 – Data Mining	3 SCH
ELECTIVE – Upper-Level CIS Elective ***or*** Upper-Level COSC Elective	3 SCH
CIS 4090 – Computer Information Systems Capstone Assessment	3 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.