

**Bachelor of Applied Arts & Sciences**  
**Information Technology – Software and Database Design 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 Applied Arts & Sciences – Information Technology – Software and Database Design 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 APPLIED ARTS AND SCIENCES IN INFORMATION TECHNOLOGY WITH A SOFTWARE AND DATABASE DESIGN CONCENTRATION**

YEAR 1	TOTAL HOURS:33
Occupational/Technical Specialization <sup>2</sup>	3 SCH
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YEAR 2	TOTAL HOURS:30
Occupational/Technical Specialization <sup>2</sup>	3 SCH
CORE 010 <sup>1</sup> – Communications Core	3 SCH
CORE 020 <sup>1</sup> – Mathematics Core	3 SCH
CORE 060 <sup>1</sup> – American History Core	3 SCH
CORE 050 <sup>1</sup> – Creative Arts Core	3 SCH
CORE 010 <sup>1</sup> – Communications Core	3 SCH
CORE 060 <sup>1</sup> – American History Core	3 SCH
CORE 080 <sup>1</sup> – Social and Behavioral Sciences Core	3 SCH
CORE 030 <sup>1</sup> – Life and Physical Science Core	3 SCH
CORE 070 <sup>1</sup> – Government/Political Science Core	3 SCH
YEAR 3	TOTAL HOURS:27
CORE 030 <sup>1</sup> – Life and Physical Science Core	3 SCH
CORE 090 <sup>1</sup> – Component Area Option Core	3 SCH
CORE 040 <sup>1</sup> – Language, Philosophy, and Culture Core	3 SCH
CORE 070 <sup>1</sup> – Government/Political Science Core	3 SCH
CHOOSE ONE: COSC 1320 – C Programming I (CORE 090)	
COSC 1336 – Programming Fundamentals I	
CIS 3330 – C++ Programming	
CIS 3331 – Visual Basic Programming <i>or</i>	
CIS 3332 – Java Programming	3 SCH
BUSI 3311 – Business Statistics	3 SCH
CIS 3347 – Data Communications and Infrastructure	3 SCH
CHOOSE ONE: CIS 3340 – Advanced C++ Programming	
CIS 3342 – Advanced Java Programming <i>or</i>	
CIS 3343 – C# Programming for Windows and the Web	3 SCH

CIS 3360 – Ethics in Computing 3 SCH

**YEAR 4** **TOTAL HOURS:30**

CIS 3365 – System Analysis and Design 3 SCH

CIS 4301 – Database Theory and Practices 3 SCH

CIS 4341 – Information Technology Security and Risk Management 3 SCH

CIS 4350 – Management Information Systems 3 SCH

CIS 3351 – Data Structures 3 SCH

CIS 4360 – Strategic Information Systems 3 SCH

CIS 4340 – Algorithm Design and Analysis 3 SCH

CIS 4352 – Structured Query Language 3 SCH

CIS 4379 – Software Engineering for E-Business 3 SCH

ELECTIVE – Upper-Level CIS Elective 3 SCH

CIS 4090 – Computer Information Systems 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. 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.