



**AAS Computer Systems – Database Development to  
Bachelor of Applied Arts and Sciences in Information Technology<sup>T</sup>  
Guided Pathway**



Effective beginning with the 2021-2022 catalog

**First Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
COSC 1315 – Intro. to Computer Programming <b>or</b> COSC 1436	ITSE 1330 – Introduction to C# Programming <b>or</b> COSC 1437
<sup>C</sup> ECON 1301 – Intro. to Economics (see list below)	<sup>C</sup> ENGL 1301 – Composition I
ITSW 1304 – Introduction to Spreadsheets - Excel	ITNW 1358 – Network+
ITSE 1346 – Database Theory and Design	ITSE 2309 – Database Programming - SQL
<sup>C</sup> MATH 1324 – Mathematics for Business & Social Sciences (see list below)	<sup>C</sup> MATH 1342 – Elementary Statistical Methods
15 credit hours	15 credit hours

**Second Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> ENGL 2311 – Technical & Business Writing	ITSC 2380 – Cooperative Education - Computer & Information Sciences, General (Capstone) <b>or</b> INEW 2330
ITSE 1311 – Beginning Web Programming	ITSE 2347 – Advanced Database Programming
ITSE 2370 – Descriptive Analytics	ITSY 2354 – Advanced Oracle PL/SQL
ITSW 2370 – SAS Programming	ITSY 1300 – Fundamentals of Info. Security (Security+)
<sup>C</sup> Speech course (see list below)	<sup>C</sup> Humanities (TSU requires)/Fine Arts course (see list below)
15 credit hours	15 credit hours

**AAS: Computer Systems - Database Development Track**

Contact your advisor at Collin College for information about applying for your associate degree.

<sup>C</sup> Core Curriculum transferrable to any public college or university in Texas.

These courses may be completed at Collin College (if offered) or TSU	
<sup>C</sup> HIST 1302 – United States History II	<sup>T</sup> Creative Arts Core Elective
<sup>T</sup> Life and Physical Science Core Elective (4 credits)	<sup>C</sup> GOVT 2305 – Federal Government
<sup>C</sup> HIST 1301 – United States History I	<sup>C</sup> GOVT 2306 – Texas Government
	<sup>T</sup> Life and Physical Science Core Elective (4 credits)
Total Semester Hours: 10	Total Semester Hours: 13

**Third Year – Tarleton State University**

Students must fulfill Tarleton State University admission requirements which can be found on their website.

FIRST SEMESTER	SECOND SEMESTER
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Total Semester Hours: 15	Total Semester Hours: 15

**Fourth Year – Tarleton State University**

FIRST SEMESTER
Tarleton Course
Tarleton Course
Tarleton Course
Tarleton Course
Tarleton Course
Total Semester Hours: 15

Total Degree Hours: 128

<sup>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

**Collin Options:**

Mathematics/Natural Sciences – choose one from: **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 1351, 2305, 2318, 2320, 2412, 2413, 2414, 2415, **BIOL** 1406, 1407, 1408, 1409, 1414, 1415, 2401, 2402, 2402, 2404, 2406, 2416, 2420, 2421, **CHEM** 1405, 1411, 1412, 2423, 2425, **ENVR** 1401, 1402, **GEOL** 1401, 1402, 1403, 1404, 1445, 1447, **PHYS** 1401, 1402, 1403, 1404, 1405, 1410, 1415, 1417, 2425, 2426.

Humanities/Fine Arts – choose one from: **ARTS** 1301, 1303, 1304, 1313, **DANC** 2303, **DRAM** 1310, 2361, 2362, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2341, **HIST** 2311, 2312, 2321, 2322, **HUMA** 1301, **MUSI** 1306, 1307, 1310, **PHIL** 1301, 1304, 2303, 2306, 2307, 2321.

Social/Behavioral Sciences – choose one from: **ANTH** 2302, 2346, 2351, **ECON** 1301, 2301, 2302, **GOVT** 2305, 2306, **HIST** 1301, 1302, 2301, **PSYC** 2301, **SOCI** 1301, 1306.

Speech – choose one from: **SPCH** 1311, 1315, 1321.