



AS in Computer Science and Information Technology FOS to  
Bachelor of Science in Computer Information Systems<sup>T</sup>



**Guided Pathway**

Effective for the 2021-2022 Catalog

**First Year – Collin College**

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> Core curriculum (See list below) (010)	<sup>C</sup> Core curriculum (See list below) (010)
<sup>C</sup> MATH 2413 - Calculus I (020)	<sup>C</sup> PHYS 2425 - University Physics I (030)
<sup>C</sup> Core curriculum (See list below) (040)	<sup>C</sup> MATH 2414 - Calculus II
<sup>C</sup> Core curriculum (See list below) (050)	COSC 1437 - Programming Fundamentals II
COSC 1436 - Programming Fundamentals I	
Total Semester Hours: 16	Total Semester Hours: 15

**Second Year – Collin College**

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> Core curriculum (See list below) (060)	<sup>C</sup> Core curriculum (See list below) (060)
<sup>C</sup> PHYS 2426 - University Physics II (030)	<sup>C</sup> Core curriculum (See list below) (070)
<sup>C</sup> Core curriculum (See list below) (070)	COSC 2325 - Computer Organization and Machine Language
COSC 2436 - Programming Fundamentals III	<sup>C</sup> Core curriculum (See list below) (080)
	MATH 2305 - Discrete Mathematics
Total Semester Hours: 14	Total Semester Hours: 15

**AS: Computer Science & Information Technology Field of Study**

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

These courses may be completed at CC (if offered) or TSU	
<sup>C</sup> Speech Core Elective (3 credit min)	<sup>C</sup> Any Core Elective (1 credit min)
Elective (5 credit min)	BCIS 1317 Personal Computer Maintenance and Hardware
	BCIS 1305 Business Computer Applications
Total Semester Hours: 8	Total Semester Hours: 7

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Total Semester Hours: 12	Total Semester Hours: 12

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	Tarleton Course
Tarleton Course	
Total Semester Hours: 12	Total Semester Hours: 9

Part-time students may also follow this sequence. Developmental coursework may be required.  
<sup>\*</sup> You may take a different course to meet this requirement. A specific list is available from your advisor.  
<sup>†</sup> This course counts for the Core Curriculum at any public college or university in Texas.  
<sup>‡</sup> Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

<sup>T</sup> This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.

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

Students may take core courses at Collin in addition to the Field of Study to earn an associate degree. They may also take any needed core courses at the university and transfer them back to Collin to earn an associate degree.

**Collin College General Education Core for AA/AS/AAT degrees**

Communication Component (010) 6 hours – ENGL 1301 and ENGL 1302 or ENGL 2311  
 Mathematics Component (020) 3 hours – MATH 1314 or 1414, 1316, 1342, 2305, 2318, 2320, 2412, 2413, 2414, 2415, AA/AAT degrees may also choose from: MATH 1324, 1325, 1332, 1350, 1351  
 Life & Physical Sciences Component (030) 6 hours – BIOL 1406, 1407, 1414, 1415, 2402, 2402, 2406, 2415, 2421, CHEM 1411, 1412, 2423, 2425, ENVR 1401, 1402, PHYS 1401, 1402, 2425, 2426, AA/AAT degrees may also choose from: BIOL 1408, 1409, 2404, 2420, CHEM 1405, GEOL 1401, 1402, 1445, 1447, PHYS 1403, 1404, 1405, 1410, 1415, 1417  
 Language, Philosophy, & Culture Component (040) 3 hours – ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, HIST 2311, 2312, 2321, 2322, HUMA 1301, PHIL 1301, 1304, 2303, 2306, 2307, 2321  
 Creative Arts Component (050) 3 hours – DANC 2303, MUSI 1306, 1307, 1310, DRAM 1310, 2361, 2362, 2366, ARTS 1301, 1303, 1304, 1313  
 American History Component (060) 6 hours – HIST 1301, 1302, 2301  
 Government/Political Sciences Component (070) 6 hours – GOVT 2305 and GOVT 2306  
 Social and Behavioral Sciences Component (080) 3 hours – ANTH 2302, 2346, 2351, ECON 2301, 2302, PSYC 2301, SOCI 1301, 1306  
 Collin Options Area 1 (090) 3 hours – SPCH 1311, 1315, 1321  
 Collin Options Area 2 (090) 3 hours – EDUC 1100, 1300, KINE 1164, 1304, 1338, or any core course not used to meet the requirement of another component. Extra hours in other components may be used in this area to accumulate the required 3 hours.