



AA/AS Computer Science & Information Technology FOS to
Bachelor of Science in Computer Science
With a Computer Engineering Concentration ^T
Guided Pathway



Effective beginning with the 2021-2022 catalog

First Year - Collin College

FIRST SEMESTER	SECOND SEMESTER
Core curriculum (See list below)	Core curriculum (See list below)
MATH 2413 - Calculus I	PHYS 2425 - University Physics I
Core curriculum (TSU requires MATH 1342 Elementary Statistical Methods)	MATH 2414 - Calculus II
Core curriculum (See list below)	COSC 1437 - Programming Fundamentals II
COSC 1436 - Programming Fundamentals I	
17 credit hours	15 credit hours

Second Year - Collin College

FIRST SEMESTER	SECOND SEMESTER
Core curriculum (See list below)	Core curriculum (See list below)
PHYS 2426 - University Physics II	Core curriculum (See list below)
Core curriculum (See list below)	COSC 2325 - Computer Organization and Machine Language
COSC 2436 - Programming Fundamentals III	Core curriculum (See list below)
	MATH 2305 - Discrete Mathematics
14 credit hours	15 credit hours

AA/ AS: Computer Science & Information Technology Field of Study

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

These courses may be completed at Collin College (if offered) or TSU

COSC 1302 Intro to Computer Science	Core Social and Behavioral Science Core Course
COSC 2331 Java Programming	COSC 2321 C++ Programming
COSC 2448 Intro to Digital System Design	Core Speech Core Course
Core Any Core Course (1 credit min)	Math 2320 Differential Equations
Total Semester Hours: 11	Total Semester Hours: 12

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
Total Semester Hours: 11	Total Semester Hours: 9

This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.

Part-time students may also follow this sequence. Developmental coursework may be required.

* You may take a different course to meet this requirement. A specific list is available from your advisor.

† This course counts for the Core Curriculum at any public college or university in Texas.

(J) Course numbers shown in parentheses are equivalent to these courses at Tarleton State University

* Degree availability varies by campus; consult 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, 2416, 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 Science 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.