



**AS Computer Science (Field of Study)  
to Bachelor of Science in Computer Science  
Guided Pathway**  
Effective beginning with the 2019-2020 catalog



**First Year - Collin College**

(Developmental coursework may be required.)

FIRST SEMESTER	SECOND SEMESTER
ENGL 1301 Composition I	ENGL 1302 Comp. II or ENGL 2311 Tech. & Bus. Writing
MATH 2413 Calculus I – 4 hours	PHYS 2425 University Physics I – 4 hours
Speech (see list below) – 3 hours	Math 2414 Calculus II – 4 hours
History (see list below) – 3 hours	History (see list below) – 3 hours
COSC 1336 Programming Fundamentals I	COSC 1437 Programming Fundamentals II
16 credit hours	17 credit hours

**Second Year - Collin College**

Apply to UNT a full semester before you plan to transfer, providing a copy of this pathway document is recommended.

FIRST SEMESTER	SECOND SEMESTER
GOVT 2305 Federal Government	GOVT 2306 Texas Government
PHYS 2426 University Physics II	Creative Arts (see list below) – 3 hours
Social/Behavioral Science (see list below) – 3 hours	COSC 2325 Computer Organization and Machine Language
COSC 2436 Programming Fundamentals III	Language, Culture, & Philosophy (see list below) – 3 hours
	History (see list below) – 3 hours
14 credit hours	15 credit hours

**AS in Computer Science**

Contact your advisor at Collin College for information about applying for your Associate's degree.

**Third Year – University of North Texas at Frisco**

Students must fulfill University of North Texas admissions requirements which can be found on the University of North Texas website.

**SUMMER SEMESTER**

MATH 2305 Discrete Mathematics – 3 hours	3 credit hours
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FIRST SEMESTER	SECOND SEMESTER
CSCS 3600 Principles of Systems Programming (3 CH)	CSCS 4110 Analysis of Algorithms (3 CH)
MATH 1780 Probability Models (3 CH)	CSCS 4010 Social Issues in Computing (3 CH)
EENG 2710 Digital Logic Design (3 CH)	CSCS 4444 Software Engineering (3 CH)
CSCS 3110 Data Structures and Algorithms (3 CH)	MATH 2310 Linear Algebra (3 CH) – Taken at Collin College
	TECM xxxx (4000 level course) (3 CH)
12 credit hours	15 credit hours

**Fourth Year – University of North Texas at Frisco**

FIRST SEMESTER	SECOND SEMESTER
CSCS 4901 CS Capstone I (3 CH)	CSCS 4902 CS Capstone II (3 CH)
CSCS 3530 Introduction to Computer Networks (3 CH)	CSCS 4350 Introduction to Database Systems (3 CH)
CSCS xxxx CS core elective (3 CH)	CSCS 4550 Introduction to Computer Security (3 CH)
CHEM 1410/1430 General Chemistry I for Science Majors with lab (4 CH)	CHEM 1420/1440 General Chemistry II for Science Majors with lab (4 CH)
CSCS advanced elective course (3 CH)	CSCS advanced elective course (3 CH)
16 credit hours	16 credit hours

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

**UNT at Frisco course rotation subject to change.**

**Collin College**

**Mathematics** – AS degree MUST choose TWO from: MATH 1314, 1414, 1316, 1342, 2305, 2318, 2320, 2412, 2413, 2414, 2415. AA degree may choose ONE from above or ONE from: MATH 1324, 1325, 1332, 1350, 1351

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

**Life & Physical Sciences** – choose two from: BIOL 1406, 1407, 1414, 1415, 2401, 2402, 2406, 2416, 2421, CHEM 1411, 1412, 2423, 2425, ENVR 1401, 1402, GEOL 1403, 1404, PHYS 1401, 1402, 2425, 2426. (AA and degree may also choose from: BIOL 1408, 1409, 2404, 2420, CHEM 1405, GEOL 1401, 1402, 1445, 1447, PHYS 1403, 1404, 1405, 1410, 1415, 1417)

**History** – choose two from: HIST 1301, 1302, 2301

**Language, Philosophy, & Culture** - choose one from: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, HIST 2311, 2312, 2321, 2322, HUMA 1301, PHIL 1301, 1304, 2303, 2306, 2307, 2321

**Creative Arts** - choose one from: ARTS 1301, 1303, 1304, 1313, DANC 2303, DRAM 1310, 2361, 2362, 2366, MUSI 1306, 1307, 1310

**Social and Behavioral Sciences** – choose one from: ANTH 2302, 2346, 2351, ECON 2301, 2302, PSYC 2301, SOCI 1301, 1306

**Elective** – choose one from: EDUC 1300, KINE 1164, 1304, 1338, OR any core course not used to meet other requirements. (AS degree may use this for the second math course)

**Required Electives** - choose at least 18 hours from one or multiple areas of choice or a Field of Study. (AS degree may use this for the second math course.)

**BS Computer Science**

Contact the **UNT at Frisco Transfer Generalist Academic Advising Office** at (972) 668–7100 or [UNTFrisco.Advising@unt.edu](mailto:UNTFrisco.Advising@unt.edu).