



**Associate of Science to
Bachelor of Science in Computer Science
General Concentration^T
Guided Pathway
Effective for the 2019-2020 catalog¹**



STEM

BHC CVC EFC ECC MVC NLC RLC

First Year – Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake, and Richland College²

FIRST SEMESTER		SECOND SEMESTER	
C ENGL 1301 – Composition I (010)		C ENGL 1302 – Composition II (010)	
C HIST 1301 – United States History I (060)		C HIST 1302 – United States History II* (060) OR C HIST 2301 – Texas History* (060)	
Choose One: C ARTS 1301 – Art Appreciation* (050) C DRAM 1310 – Introduction to Theater* (050) C MUSI 1306 – Music Appreciation* (050)		MATH 2414 – Calculus II	
EDUC 1300 – Learning Framework [@]		COSC 1436 – Programming Fundamentals I+ OR MATH 2305 – Discrete Mathematics+	
C MATH 2413 – Calculus I [^] (020)			
Total Semester Hours: 16		Total Semester Hours: 13-14	

SUMMER SEMESTER	
C GOVT 2305 – Federal Government (070)	
C PHYS 2425 – University Physics I (030)	
Total Semester Hours: 7	

Second Year – Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake, and Richland College
It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER		SECOND SEMESTER	
C GOVT 2306 – Texas Government (070)		COSC 2436 – Programming Fundamentals II+	
C PHYS 2426 – University Physics II (030)		C ECON 2301 – Principles of Macroeconomics I+* (080)	
COSC 1437 – Programming Fundamentals II+		Choose One: C ENGL 2331 – World Literature* (040) C PHIL 1301 – Introduction to Philosophy* (040) C PHIL 2306 – Introduction to Ethics* (040)	
C MATH 1342 – Elementary Statistical Methods		C SPCH 1315 – Public Speaking+* (090) OR C SPCH 1321 – Business and Professional Communication+* (090)	
		C PHED 1164 – Introduction to Physical Fitness and Wellness (090)	
Total Semester Hours: 14		Total Semester Hours: 14	

Associate of Science (64-65 hours)

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

Third Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
COSC 3443 – Computer Architecture (Fall Only)		COSC 3380 – Operating Systems (Spring Only)	
COSC 4478 – Computer Networks (Fall Only)		COSC 3489 – Software Engineering I (Spring Only)	
MATH 3310 – Discrete Mathematics (Fall Only)		COSC 2331 – Introduction to Java Programming	
COSC 1302 – Introduction to Computer Science		COSC 2321 – C++ Programming (Spring Only)	
Total Semester Hours: 14		Total Semester Hours: 13	

THIRD SEMESTER	
Advanced COSC or approved MATH, BCIS, or Digital Media Studies Elective	
Advanced COSC or approved MATH, BCIS, or Digital Media Studies Elective	
Total Semester Hours: 12	

Fourth Year – Tarleton State University

FIRST SEMESTER		SECOND SEMESTER	
COSC 2341 – Data Structures		COSC 4401 – Database Theory and Practice (Spring Odd Years)	
Advanced Technical Elective		Advanced Technical Elective	
COSC 1310 – Procedural Programming		Advanced Technical Elective	
COSC 2448 – Introduction to Digital Systems Design		Advanced COSC or approved MATH, BCIS, or Digital Media Studies Elective	
Total Semester Hours: 13		Total Semester Hours: 13	
		Total Degree Hours: 123-126	

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.

¹ You may use this pathway if you entered one of the seven colleges on or before this date.

² Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by one of the seven colleges of the DCCCD awarding the degree.

[@] All college students with fewer than 12 semester credit hours of successful college credit (grade of "C" or above) must take a student success course in the first semester.

[^] To register for MATH 2413, you must have completed the prerequisite math courses as follows: MATH 1314, MATH 1316, MATH 2412

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

* There are several options to fulfill this requirement. See your academic advisor for a specific list.

+ Elective courses should be selected according to the intended university to which you will transfer. See your academic advisor for assistance with course selection.

++ It is recommended you complete either ENGR 2305 or ENGR 2306 (choose which course based on the university you plan to transfer to) prior to transferring.

You must earn a grade of "C" or better in English 1301 and the selected college-level mathematics course and receive a GPA of at least 2.50 on all college-level course work.

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

¹ Degree availability varies by campus; consult www.tarleton.edu for more information.

Approved: 2019-2020 Guided Pathway

For questions about the university portion of this pathway,

contact the Computer Information Systems & Marketing department at 254-968-9047.

