![STEM]

Associate of Science to
Bachelor of Science in Computer Science
Software Engineering Concentration [T]
Guided Pathway
Effective for the 2019-2020 catalog[1]

TARLETON STATE UNIVERSITY — Member of The Texas A&M University System

🟢BHC 🟡CVC 🟠EFC ⚫ECC 🔵MVC 🔵NLC 🟣RLC

First Year – Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake, and Richland College[2]

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

SUMMER SEMESTER
CGOVT 2305 – Federal Government (070)
CPHYS 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
CGOVT 2306 – Texas Government (070)	COSC 2436 – Programming Fundamentals II+
CPHYS 2426 – University Physics II (030)	CECON 2301 – Principles of Macroeconomics I+* (080)
COSC 1437 – Programming Fundamentals II+	*Choose One:* CENGL 2331 – World Literature* (040) CPHIL 1301 – Introduction to Philosophy* (040) CPHIL 2306 – Introduction to Ethics* (040)
ENGR 1201 – Introduction to Engineering+ *OR* MATH 2415 – Calculus III+ *OR* COSC 2425 – Computer Organization+	CSPCH 1315 – Public Speaking+* (090) *OR* CSPCH 1321 – Business and Professional Communication+* (090)
	CPHED 1164 – Introduction to Physical Fitness and Wellness (090)
Total Semester Hours: 13-15	**Total Semester Hours: 14**

Associate of Science (63-66 hours)
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 DCCCD or TSU	
Technical Elective	Technical Elective
CMATH 1342 – Elementary Statistical Methods	
	Total Semester Hours: 9

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
COSC 2331 – Introduction to Java Programming	COSC 3380 – Operating Systems
MATH 3310 – Discrete Mathematics	COSC 3489 – Software Engineering I
COSC 3443 – Computer Architecture	COSC 1310 – Procedural Programming
COSC 1302 – Introduction to Computer Science	COSC 2321 – Object Oriented Programming
Total Semester Hours: 13	**Total Semester Hours: 13**

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
COSC 3390 – Software Engineering II	COSC 4389 – Programming Language Fundamentals
COSC 4451 – Distributed Applications	COSC 4401 – Database Theory and Practice
COSC 2341 – Data Structures	COSC 4478 – Computer Networks
COSC 2448 – Introduction to Digital Systems Design	
Total Semester Hours: 14	**Total Semester Hours: 11**
	Total Degree Hours: 123-126

For questions about the university portion of this pathway,
contact the Computer Information Systems & Marketing department at 254-968-9047.

Dallas County Community College District