Associate of Science in Computer Science
Bachelor of Science in Computer Science
Software Engineering Concentration ᵀ
Guided Pathway
Effective for the 2019-2020 Catalog

First Year – Paris Junior College

FIRST SEMESTER	SECOND SEMESTER
COSC 1301 – Introduction to Computing	ᶜDRAM 1310 – Introduction to Theater (050)
EDUC/PSYC 1300 – Learning Framework	ᶜENGL 1302 – Composition II (010)
ᶜENGL 1301 – Composition I (010)	ᶜHIST 1302 – United States History II (060)
ᶜHIST 1301 – United States History I (060)	ᶜMATH 2312 – Pre-Calculus Math (090)
ᶜMATH 1314 – College Algebra (020)	ᶜSPCH 1321 – Business & Professional Comm. (090)
Total Semester Hours: 15	Total Semester Hours: 15

Second Year – Paris Junior College

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

FIRST SEMESTER	SECOND SEMESTER
COSC 1336 – Programming Fundamentals I	ᶜCOMM 1307 – Intro. to Mass Communications (040)
ᶜECON 2302 – Principles of Microeconomics (080)	COSC 1337 – Programming Fundamentals II
ᶜGOVT 2305 – Federal Government (070)	ᶜGOVT 2306 – Texas Government (070)
MATH 2413 – Calculus I	ᶜPHYS 1402 – College Physics II (030)
ᶜPHYS 1401 – College Physics I (030)	
Total Semester Hours: 17	Total Semester Hours: 13

AS: Computer Science

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 taken at Paris Junior College or TSU	
ᶜPHYS 2425 – University Physics I	MATH 2414 – Calculus II
Technical Elective ˣ	ᶜMATH 1342 – Elementary Statistical Methods
	Total Semester Hours: 14

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: 125

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.
 ᶜ This course counts for the Core Curriculum at any public college or university in Texas.
 () Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.
 ᵀ Degree availability varies by campus; consult www.tarleton.edu for more information.
 ˣ Choose any course with the following prefix: BIOL, CHEM, COSC, ENGR, ENGT, GEOS, MATH, PHYS

For questions regarding the university portion of this pathway,
contact the Engineering and Computer Science Department at 254-968-9863.