

Associate of Science-Computer Science to Bachelor of Science in Computer Science Computer Engineering Concentration^T



Guided Pathway

Effective for the 2019-2020 Catalog

First Year - Galveston College

FIRST SEMESTER	SECOND SEMESTER
^C ENGL 1301 Composition I	^C ENGL 1302 Composition II
CHIST 1301 US History I	CHIST 1302 US History II
CMATH 2413 Calculus I	CMATH 2414 Calculus II
COSC 1336 Programming Fundamentals I	COSC 1337 Programming Fundamentals II
^c Communication Elective	^C Creative Arts Elective

Total Semester Hours: 16

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Second Year – Galveston College

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

FIRST SEMESTER	SECOND SEMESTER
^C GOVT 2305 Federal Government	CGOVT 2306 Texas Government
COSC 2325 Computer Organization	CPHYS 2426 University Physics II
CPHYS 2425 University Physics I	^C Language, Philosophy & Culture Elective
COSC 2336 Programming Fundamentals III	^C Social & Behavioral Science Elective
	MATH 1342 Elementary Statistical Methods

Total Semester Hours: 13

Total Semester Hours: 16

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 completed at GC (if offered) or TSU		
*CFirst Year Seminar Elective (Learning Frameworks)	COSC 1310 – Procedural Programming	
COSC 1302 – Introduction to Computer Science	COSC 2448 – Introduction to Digital Systems Design	
COSC 2341 – Data Structures	ELEN 2425 – Electrical Circuit Theory	
COSC 2331 – Introduction to Java Programming		

Total Semester Hours: 21-23

Third Year - Tarleton State University

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FIRST SEMESTER	SECOND SEMESTER	
ELEN 3314 – Signals and Systems (Fall Only)	Advanced Technical Elective	
MATH 3310 – Discrete Mathematics (Fall Only)	MATH 3306 – Differential Equations	
COSC 3443 – Computer Architecture (Fall Only)	ELEN 3445 – Electronics I <u>OR</u>	
	ELEN 4350 – Communication Systems Theory <u>OR</u>	
	ELEN 4355 – Digital Signal Processing <u>OR</u>	
	ELEN 4443 – Linear Control System Design	
COSC 4441 – Microprocessor System Design (Fall Only)		

Total Semester Hours: 14

Total Semester Hours: 9-10

Fourth Year - Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
COSC 4478 – Computer Networks (Fall Only)	
ELEN 3445 – Electronics I <u>OR</u>	ELEN 3445 – Electronics I <u>OR</u>
ELEN 4350 – Communication Systems Theory OR	ELEN 4350 – Communication Systems Theory <u>OR</u>
ELEN 4355 – Digital Signal Processing <u>OR</u>	ELEN 4355 – Digital Signal Processing OR
ELEN 4443 – Linear Control System Design	ELEN 4443 – Linear Control System Design
Advanced Technical Elective	COSC 3380 – Operating Systems (Spring Only)
Advanced Technical Elective	COSC 3489 – Software Engineering I (Spring Only)

TOTAL: 128-133

Total Semester Hours: 13-14

Total Semester Hours: 10-11

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.
- TDegree availability varies by campus; consult www.tarleton.edu for more information.