

BS in Computer Science (COSC)

Suggested Four-Year Plan

The COSC degree requires a minimum of 120 hours to complete.

YEAR	FALL SEMESTER	SPRING SEMESTER
Freshman	COSC 10403: Intro to Programming	COSC 20203: Techniques in Programming
	MATH 10524: Calculus I	MATH 20123: Discrete Math I
	TCU Core – NSC ¹	TCU Core - NSC ¹
	TCU Core ³	TCU Core ³
	TCU Core ³	TCU Core ³
Sophomore	COSC 20803: Data Structures	COSC 30253: Computer Organization
	COSC 30503: Systems Programming	COSC 30403: Programming Lang Concepts
	MATH 30123: Discrete Math II	MATH 30224: Linear Algebra
	TCU Core – NSC ¹	TCU Core - NSC ¹
	TCU Core ³	TCU Core ³
Junior	COSC 30203: Computer System Fund	COSC 40203: Operating Systems
	COSC 30603: Database Systems	COSC Elective ²
	COSC 40403: Analysis of Algorithms	COSC Elective ²
	MATH 10043: Elementary Statistics ⁵	TCU Core ³
	TCU Core ³	TCU Core ³
Senior	COSC 40943: Software Engineering ⁴	COSC 40993: Senior Design Project ⁴
	COSC Elective ²	COSC Elective ²
	TCU Core ³	Free Elective
	Free Elective	Free Elective
	Free Elective	Free Elective

Note: 36 hours must be in advanced courses (30000 or 40000 level) **taken at TCU.**

NATURAL SCIENCE REQUIREMENT¹

PHYS I, II or PHYS I, II or PHYS (Astronomy)	10154, 10164
plus	20474, 20484
Two additional science courses	10263, 10273, 10293 (pick any two astronomy courses)
	<i>Must be approved</i>

¹ Must complete a two-course sequence in Physics and Astronomy plus two approved NSC courses.

² Must be an approved COSC or CITE elective.

³ Must be selected from university approved courses. The approved courses are identified in the schedule of classes.

⁴ COSC 40943 and COSC 40993 are writing emphasis courses (TCU Core WEM).

⁵ MATH 30853 may be substituted. See course prerequisites.