

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
	Elective – Science ¹	Elective – Science ¹
	Elective – Religious Traditions ³	ENGL 10803: Introductory Comp
	Elective – Historical Traditions ³	Elective – Cultural Awareness ³
Sophomore	COSC 20803: Data Structures	COSC 30253: Computer Organization
	CITE 30103: Unix/Linux System Admin	COSC 30403: Programming Lang Concepts
	MATH 30123: Discrete Math II	MATH 30224: Linear Algebra
	Elective - Science ¹	Elective - Science ¹
	ENGL 20803: Intermediate Comp	Elective – Literary Traditions ³
Junior	COSC 30203: Computer System Fund	COSC 40203: Operating Systems
	COSC 30603: Database Systems	Elective – Computer Science ²
	COSC 40403: Analysis of Algorithms	Elective – Computer Science ²
	MATH 10043: Elementary Statistics	Elective – Global Awareness ³
	Elective – Oral Communication ³	Elective – Citizenship/Social Values ³
Senior	COSC 40943: Software Engineering	COSC 40993: Senior Design Project
	Elective – Computer Science ²	Elective – Computer Science ²
	Elective – Fine Arts ³	Elective – Free
	Elective – Free	Elective – Free
	Elective – Free	Elective – Free

Note: 42 hours must be in advanced courses (30000 or 40000 level) **taken at TCU.**

SCIENCE REQUIREMENT¹

PHYS I, II or PHYS I, II or PHYS (Astronomy)	10154, 10164 (+ labs) 20474, 20484 (+ labs) 10263, 10273, 10293 (+ labs)
plus	
Two additional science courses	Must be approved

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.