

BS in Computer Science (COSC)

Suggested Four-Year Plan

The COSC degree requires a minimum of 124 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 ²	ENGL 10803: Introductory Comp
	Elective – Historical Traditions ²	Elective – Cultural Awareness ²
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 ²
Junior	COSC 30203: Computer System Fund	COSC 40203: Operating Systems
	COSC 30603: Database Systems	Elective – Computer Science ³
	COSC 40403: Analysis of Algorithms	Elective – Computer Science ³
	MATH 10043: Elementary Statistics	Elective – Global Awareness ²
	Elective – Oral Communication ²	Elective – Citizenship/Social Values ²
	Elective – Fine Arts ²	
Senior	COSC 40943: Software Engineering	COSC 40993: Senior Design Project
	Elective – Computer Science ³	Elective – Computer Science ³
	Elective – Free	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

Recommended Sequence

BIOL I, II (Honors)	Lecture: 10503, 10513 Lab: 10501, 10511
CHEM I, II	Lecture: 10113, 10123 Lab: 10122
ENSC	10143 (+ lab)
GEOL	10113 (+ lab)
PHYS I, II PHYS I, II PHYS (Astronomy)	10154, 10164 (+ labs) 20474, 20484 (+ labs) 10263, 10273, 10293 (+ labs)
PSYC I, II	10514, 10524 (+ labs)

Not Allowed for any Science Credit¹

BIOL: 10003, 20204-14, 20234, 30613

CHEM: 10613

GEOL: 20213, 30103

PHYS: 10073, 20053

¹ All courses must be selected from Biology, Chemistry, Environmental Science, Geology, Physics, or Psychology from at least two different subject areas. Must include a two-course sequence. Any two of the three listed Astronomy courses may count as a two-course sequence. Must include two courses having a lab component.

² Must be selected from university-approved courses. The approved courses are identified in the schedule of classes.

³ Must be approved.