

BS in Data Science (DASC)

Suggested Four-Year Plan

The DASC 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 ¹	MATH 20524: Calculus II
	TCU Core ¹	TCU Core ¹
	TCU Core ¹	TCU Core ¹
Sophomore	COSC 20803: Data Structures	COSC/MATH 30103: Intro to Data Sci
	COSC 30503: Systems Programming	MATH 30224: Linear Algebra
	MATH 30123: Discrete Math II	TCU Core – NSC ¹
	TCU Core – NSC ¹	TCU Core ¹
	TCU Core ¹	TCU Core ¹
Junior	COSC 30603: Database Systems	COSC 40023: Machine Learning
	COSC 40403: Analysis of Algorithms	COSC 40503: Artificial Intelligence
	MATH 30803: Probability	MATH 30853: Statistics
	TCU Core ¹	TCU Core ¹
	Elective – Free	Elective – Free
Senior	COSC 40943: Software Engineering ⁴	COSC 40993: Senior Design Project ⁴
	COSC 40523: Deep Learning	COSC Elective ²
	MATH Elective ³	Elective – Free
	Elective – Free	Elective – Free
	Elective – Free	Elective – Free

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

¹ Must be selected from university approved course. The approved courses are identified in the schedule of classes.

² Must be an approved COSC or CITE elective.

³ Must be an approved MATH elective.

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