BS in Data Science (DSCI) Four-Year Plan

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

YEAR	FALL SEMESTER	SPRING SEMESTER
	COSC 10403: Intro to Programming	COSC 20203: Techniques in Programming
	MATH 10524: Calculus I	MATH: 20123: Discrete Math I
Freshman	TCU Core ¹	MATH: 20524: Calculus II
	TCU Core ¹	TCU Core ¹
	TCU Core ¹	TCU Core ¹
	COSC 20803: Data Structures	COSC/MATH 30103: Intro to Data Science
	CITE 30103: Unix/Linux System Admin	MATH 30224: Linear Algebra
Sophomore	MATH 30123: Discrete Math II	TCU Core - NSC ¹
	TCU Core - NSC ¹	TCU Core ¹
	TCU Core ¹	TCU Core ¹
	COSC 30603: Database Systems	COSC 40023: Data Mining and Visualization
	COSC 40403: Analysis of Algorithms	COSC 40503: Artificial Intelligence
Junior	MATH 30803: Probability	MATH 30853: Statistics
	TCU Core ¹	TCU Core ¹
	Free Elective	Free Elective
	COSC 40943: Software Engineering ⁴	COSC 40993: Senior Design Project ⁴
	COSC 40523: Deep Learning	COSC Elective ³
Senior	MATH Elective ²	Free Elective
	Free Elective	Free Elective
	Free Elective	Free Elective

Revised: June 3, 2024

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

 $^{^{1}}$ Must be selected from university approved courses. The approved courses are identified in the schedule of classes. 2 Must be an approved MATH elective.

³ Must be an approved CITE/COSC elective.

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