BS in Data Science (DSCI)
Four-Year Plan
The DSCI 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
	ENGL 10803: Introductory Comp	MATH: 20524: Calculus II
	Elective – Religious Traditions[1]	ENGL 20803: Intermediate Comp
	Elective – Historical Traditions[1]	Elective – Cultural Awareness[1]
Sophomore	COSC 20803: Data Structures	COSC/MATH 30103: Intro to Data Science
	CITE 30103: Unix/Linux System Admin	MATH 30224: Linear Algebra
	MATH 30123: Discrete Math II	Elective – Science[1]
	Elective – Science[1]	Elective – Global Awareness[1]
	Elective – Fine Arts[1]	Elective – Literary Traditions[1]
Junior	COSC 30603: Database Systems	COSC 40023: Data Mining and Visualization
	COSC 40403: Analysis of Algorithms	COSC 40503: Artificial Intelligence
	MATH 30803: Probability	MATH 30853: Statistics
	Elective – Oral Communication[1]	Elective – Citizenship/Social Values[1]
	Elective – Free	Elective – Free
Senior	COSC 40943: Software Engineering	COSC 40993: Senior Design Project
	COSC 40523: Deep Learning	Elective – Computer Science[3]
	Elective – Math[2]	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**.

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[1] Must be selected from university-approved courses and meet core requirements.
[2] Must be selected from MATH 30524, MATH 40223, MATH 40663, MATH 40853 and MATH 40883.
[3] Must be selected from approved computer science electives at the 30000 level or above.

Revised: 10 June 2020