

Data Science with AI Emphasis - Requirements 2026-27

Questions? Contact a SoC Academic Advisor at ds-ugshelp@cs.utah.edu

Course	Title	Credits	Designation	Notes	Planned Semester		
GENERAL EDUCATION							
WRTG 2010	Intermediate Writing	3	WR2	Ⓒ	_____	DV	IR
WRTG 3014 or 3015		3	CW	Ⓒ	_____	choose 1	choose 1
_____	_____	3	AI	Ⓒ	_____		
_____	_____	3	FF	Ⓒ *	_____	☐	☐
_____	_____	3	HF	Ⓒ *	_____	☐	☐
_____	_____	3	BF	Ⓒ *	_____	☐	☐
_____	_____	3	LS	Ⓒ *	_____	☐	☐
_____	_____	3	PS	Ⓒ *	_____	☐	☐
FOUNDATION	CS 1400	Intro to Comp Prog	4		_____	Ⓒ Honors options available see honors.utah.edu * 4 credit options accepted ■ Engineering Calculus, MATH 1310 and 1320, also accepted ⊙ CS 3130 or ECE 3530 also accepted ⌘ Students pursuing Honors and choosing project must take CS 4998 concurrently with DS 4850 to satisfy the Honors Thesis Work ➡ Minimum 120 credits required for graduation ‡ MATH 2200 also accepted	
	CS 1410	Intro to OOP	4		_____		
	OR						
	CS 1420	Accel OOP	4		_____		
	CS 2420	Intro to Algs & DS	4		_____		
MATH 1210	Calculus 1	4	QL	Ⓒ ■	_____		
ANALYTICAL FOUNDATIONS							
MATH 1220	Calculus 2	4	QL	Ⓒ ■	_____		
CS 2100	Discrete Structures	3		‡	_____		
Math 2270	Linear Algebra	4	QL		_____		
Math 3070	Applied Statistics 1	4	QL/QI	⊙	_____		
Math 3080	Applied Statistics 2	4	QI		_____		
DS 3190	Fndn of Data Analysis	3			_____		
COMPUTING FOUNDATIONS							
DS 2500	Data Wrangling	3			_____		
CS 3500	Software Practice 1	4			_____		
CS 4150	Algorithms	3			_____		
CORE DATA SCIENCE							
DS 3390	Ethics in Data Science	3			_____		
DS 3941	Data Science Seminar	1			_____		
DS 4140	Data Mining	3			_____		
DS 4350	Machine Learning	3			_____		
DS 4530	Database Systems	3			_____		
DS 4630	Visualization for DS	3			_____		
AI EMPHASIS							
CS 4300	Artificial Intelligence	3			_____		
PICK TWO:							
• CS 3535 - Manage Data for & with ML			• CS 4640 - Image Processing Basics				
• CS 5320 - Computer Vision			• CS 5340 - Natural Language Processing				
DATA DOMAIN ELECTIVE							
_____	_____	3			_____		
_____	_____	3			_____		
_____	_____	3			_____		
SENIOR CAPSTONE REQUIREMENT							
Choose DS 4800, 4850 (Project) or DS 4940, 4970 (Thesis)							
DS _____	_____	3			_____		
DS _____	_____	3		⌘	_____		