

B.S. in Data Science 2024-25

For students starting with CS 1400 and Pre-Calculus

Year 1		Year 2		Year 3		Year 4	
Fall (15)	Spring (17)	Fall (17)	Spring (14)	Fall (13)	Spring (13)	Fall (13)	Spring (15)
CS 1400 Intro to Computer Programming 4 FA/SP	CS 1410 Object-Oriented Programming 4 FA/SP	CS 2420 Algorithms & Data Structures 4 FA/SP/SU	CS 2100 Discrete Structures 3 FA/SP	CS 4150 Algorithms 3 FA/SP	DS 4140 Data Mining 3 SP	DS 4800 Senior Capstone Design 3 — OR FA/SP	DS 4850 Senior Capstone Project 3 — OR FA/SP
MATH 1080 Pre-Calculus 5 FA/SP/SU	MATH 1310 Engineering Calculus 1 4 FA/SP	MATH 1320 Engineering Calculus 2 4 FA/SP/SU	CS 3500 Software Practice 1 4 FA/SP	DS 3190 Foundations of Data Analysis 3 FA	DS 4530 Database Systems 3 SP	DS 4940 Undergraduate Research 3 FA/SP	DS 4970 Bachelors Thesis 3 FA/SP
General Education (AI) 3 FA/SP/SU	General Education (WRTG 2010) 3 FA/SP/SU	Data Domain Elective 3 FA/SP/SU	DS 2500 Data Wrangling 3 SP	DS 3390 Ethics in Data Science 3 FA	Data Analysis Breadth Elec. 3 FA/SP/SU	DS 4630 Visualization of Data Science 3 FA	DS 4350 Machine Learning 3 FA/SP
General Education (BF) 3 FA/SP/SU	General Education (PS) 3 FA/SP/SU	General Education (FF) 3 FA/SP/SU	MATH 2270 Linear Algebra 4 FA/SP/SU	MATH 3070 Applied Statistics 1 4 FA/SP/SU	MATH 3080 Applied Statistics 2 4 SP	Data Analysis Breadth Elec. 3 FA/SP/SU	Data Analysis Breadth Elec. 3 FA/SP/SU
	General Education (LS) 3 FA/SP/SU	WRTG 3014 or 3015 Scientific or Professional Writing 3 FA/SP/SU				Data Domain Elective 3 FA/SP/SU	Data Domain Elective 3 FA/SP/SU
						DS 3941 Data Science Seminar 1 FA	General Education (HF) 3 FA/SP/SU

MATH 2200 also accepted

Ready to apply to the program? Access the application link located in the Student Handbook!

- MATH 1210 and MATH 1220 also accepted
- Ⓒ Students pursuing Honors and choosing the project must take CS 4998 concurrently with DS 4850 to satisfy the Honors Thesis Work. Honors students pursuing the thesis must take CS 4999 (instead of DS 4970)
- Ⓓ For Data Analysis Breadth and Data Domain Electives see <https://handbook.cs.utah.edu/2023-2024/DS/>
- * CS 3130 or ECE 3530 also accepted
- ☞ DV & IR reqs. can be combined w/HF/FF/BF/LS/PS
- ✓ Honors options available

gray = Pre-Major Courses

117 credit hours total

122 credit hours required for graduation

B.S. in Data Science 2024-25

For students starting with CS 1420 and Calculus 1

Year 1		Year 2		Year 3		Year 4	
Fall (17)	Spring (14)	Fall (14)	Spring (12)	Fall (13)	Spring (13)	Fall (13)	Spring (12)
CS 1420 Accel Object Oriented Prog 4 FA/SP	CS 2420 Intro Algorithms & Data Structures 4 FA/SP/SU	CS 3500 Software Practice 1 4 FA/SP	DS 2500 Data Wrangling 3 SP	DS 3190 Foundations of Data Analysis 3 FA	DS 4140 Data Mining 3 SP	DS 4800 [Ⓒ] Senior Capstone Design 3 FA/SP	DS 4850 [Ⓒ] Senior Capstone Project 3 FA/SP
co-reqs	co-reqs					OR	OR
MATH 1310 Engineering Calculus 1 4 FA/SP	MATH 1320 Engineering Calculus 2 4 FA/SP/SU	CS 2100 Discrete Structures 3 FA/SP	CS 4150 Algorithms 3 FA/SP	DS 3390 Ethics in Data Science 3 FA	Data Analysis Breadth Elec. [⊙] 3 FA/SP/SU	DS 4940 [Ⓒ] Undergraduate Research 3 FA/SP	DS 4970 [Ⓒ] Bachelors Thesis 3 FA/SP
		MATH 2200 also accepted					
General Education (FF) 3 FA/SP/SU	General Education (WRTG 2010) 3 FA/SP/SU	MATH 2270 Linear Algebra 4 FA/SP/SU	DS 4530 Database Systems 3 SP	MATH 3070 [*] Applied Statistics 1 4 FA/SP/SU	MATH 3080 Applied Statistics 2 4 SP	DS 4630 Visualization for Data Science 3 FA	DS 4350 Machine Learning 3 FA/SP
General Education (AI) 3 FA/SP/SU	General Education (BF) 3 FA/SP/SU						
General Education (LS) 3 FA/SP/SU		General Education (HF) 3 FA/SP/SU	General Education (PS) 3 FA/SP/SU	WRTG 3014 or 3015 Scientific or Professional Writing 3 FA/SP/SU	Data Domain Elective [⊙] 3 FA/SP/SU	Data Analysis Breadth Elec. [⊙] 3 FA/SP/SU	Data Analysis Breadth Elec. [⊙] 3 FA/SP/SU
				pre-req WRTG 2010			
		<ul style="list-style-type: none"> ▪ MATH 1210 and MATH 1220 also accepted Ⓒ Students pursuing Honors and choosing the project must take CS 4998 concurrently with DS 4850 to satisfy the Honors Thesis Work. Honors students pursuing the thesis must take CS 4999 (instead of DS 4970) ⊙ See https://handbook.cs.utah.edu/2023-2024/DS/ for Data Analysis Breadth and Data Domain Elective options * CS 3130 or ECE 3530 also accepted ⚡ DV & IR requirements can be combined with HF/FF/BF/LS/PS electives ✓ Honors options available 					
						Data Domain Elective [⊙] 3 FA/SP/SU	Data Domain Elective [⊙] 3 FA/SP/SU
						DS 3941 Data Science Seminar 1 FA	

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