

B.S. in Data Science 2022-23

For students starting with CS 1420 and Calculus 1

| Year 1 | | Year 2 | | Year 3 | | Year 4 | |
|---|--|---|--|--|--|--|---|
| Fall (17) | Spring (17) | Fall (14) | Spring (12) | Fall (13) | Spring (13) | Fall (12) | Spring (12) |
| <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> CS 1420 Accel Object Oriented Prog 4 FA/SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> CS 2420 Intro Algorithms & Data Structures 4 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> CS 3500 Software Practice 1 4 FA/SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 2500 Data Wrangling 3 SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 3190 Foundations of Data Analysis 3 FA </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 4530 Database Systems 3 SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 4800 [Ⓒ] Senior Capstone Design 3 FA/SP OR DS 4940 [Ⓒ] Undergraduate Research 3 FA/SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 4850 [Ⓒ] Senior Capstone Project 3 FA/SP OR DS 4970 [Ⓒ] Bachelors Thesis 3 FA/SP </div> |
| <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> MATH 1310 ✓ Engineering Calculus 1 4 FA/SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> MATH 1320 ✓ Engineering Calculus 2 4 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> CS 2100 Discrete Structures 3 FA/SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> CS 4150 Algorithms 3 FA/SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 3390 Ethics in Data Science 3 FA </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> Data Analysis Breadth Elec. [⊙] 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 4630 Visualization for Data Science 3 FA </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 4350 Machine Learning 3 FA/SP </div> |
| <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> General Education (FF) ✓ 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> General Education (WRTG 2010) ✓ 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> MATH 2270 Linear Algebra 4 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 4140 Data Mining 3 SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> MATH 3070 * Applied Statistics 1 4 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> MATH 3080 Applied Statistics 2 4 SP </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 4630 Visualization for Data Science 3 FA </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> DS 4350 Machine Learning 3 FA/SP </div> |
| <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> General Education (AI) ✓ 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> General Education (HF) ✓ 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> General Education (FF) ✓ 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> General Education (HF) ✓ 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> WRTG 3014 or 3015 ✓ Scientific or Professional Writing 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> Data Domain Elective [⊙] 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> Data Analysis Breadth Elec. [⊙] 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> Data Analysis Breadth Elec. [⊙] 3 FA/SP/SU </div> |
| <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> General Education (BF) ✓ 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> General Education (BF) ✓ 3 FA/SP/SU </div> | <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 CS 4970) ⊙ See https://www.cs.utah.edu/datascience/bs-in-data-science/ for Data Analysis Breadth and Data Domain Elective options * CS 3130 or ECE 3530 also accepted ↔ DV and IR requirements can be combined with HF/FF/BF electives ✓ Honors options available | | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> Data Domain Elective [⊙] 3 FA/SP/SU </div> | <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center;"> Data Domain Elective [⊙] 3 FA/SP/SU </div> | | |
| <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; display: inline-block;"> gray = Pre-Major Courses </div> | | | | | | 110 credit hours total *122 credit hours required for* *graduation* | |

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