

B.S. DATA SCIENCE 2021-22

| YEAR 1 | | YEAR 2 | | YEAR 3 | | YEAR 4 | |
|--|---|--|---|---|---|--|---|
| Fall (14 cr) | Spring (14 cr) | Fall (17 cr) | Spring (16 cr) | Fall (15 cr) | Spring (15 cr) | Fall (12 cr) | Spring (12 cr) |
| <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> CS 1420 Accl. Object Oriented Programming 4 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> CS 2420 Intro. Algorithms and Data Structures 4 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> CS 2100 Discrete Structures 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> MATH 2270 Linear Algebra 4 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 3190 Foundations of Data Analysis 3 FA </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 4140 Data Mining 3 SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 4800 Senior Capstone Project (Design) or DS 4940 Undergraduate Research 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 4850 Senior Capstone Project or DS 4970 Undergraduate Thesis 3 FA/SP </div> |
| <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> *MATH 1310 Engineering Calculus I 4 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> MATH 1320 Engineering Calculus II 4 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> CS 3500 Software Practice 4 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> CS 4150 Algorithms 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 4630 Visualization for Data Science 3 FA </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 4530 Database Systems 3 SP </div> | | |
| <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> WRTG 2010 Intermediate Writing 3 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 2500 Data Wrangling 3 SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> MATH 3070 Applied Statistics I 4 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> MATH 3080 Applied Statistics II 3 SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 3390 Ethics in Data Science 3 FA </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> Elective Data Domain 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DS 4350 Machine Learning 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> General Education BF 3 FA/SP </div> |
| <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> General Education BF 3 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> General Education HF 3 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> Elective Data Domain 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> Elective Data Domain 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> Elective Data Analysis Breadth 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> Elective Data Analysis Breadth 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> Elective Data Analysis Breadth 3 FA/SP </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> General Education HF 3 FA/SP/SU </div> |
| | | | Pre-req: WRTG 2010 | | | | |
| | | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> American Institutions 3 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> WRTG 3014 or WRTG 3015 3 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> General Education FF 3 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> General Education (3000+) 3 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> DV Requirement 3 FA/SP/SU </div> | <div style="border: 1px solid black; border-radius: 10px; padding: 5px; margin-bottom: 5px;"> IR FF Requirement (3000+) 3 FA/SP/SU </div> |

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

Grey = Pre-Major Courses
 Check handbook.cs.utah.edu for application requirements and instructions

For a complete list of approved Data Domain and Data Analysis Breadth Electives, visit:
<https://www.cs.utah.edu/data-science/bs-in-data-science/>

***** = Students who do not pursue the Engineering Calculus sequence are required to complete MATH 1210 (Calculus I), MATH 1220 (Calculus II), and MATH 2210 (Calculus III)

Caveat: Semester availability is subject to change at the discretion of the departments and does not create a binding contractual nexus or obligation between the student and the University of Utah