BACHELOR OF SCIENCE IN DATA SCIENCE Student:			Date:		Catalogue 2024 - 2025	
netID:	_		Advisor:			
Year 1	_					
Semester 1	Cr	Status	Semester 2	Cr	Status	
MA: MATH 1234 - Calculus I*	4		MA: MATH 1248 - Calculus II	4		
QD: STAT 1410 - Basic Statistical Methods 1* OR QD: STAT 2430 - Statistics for Engineering* MATH 1234	3		QR: CS 1640 - Discrete Structures MATH 1234, CS 1210	3		
QD: CS 1210 - Computer Programming I	3		N1 (no lab) or N2 (lab): Natural Science Course	3 - 4		
CEMS 1500 - CEMS First Year Seminar	1		Catamount Core (Diversity 1 or Diversity 2)	3		
Catamount Core (WIL1): ENGL 1001 - Written Expression	3		STAT 2830 - Basic Statistical Methods 2** STAT 1410 or STAT 2430 or STAT 3210	3		
Total credits	14		Total credits	16 - 17		
Year 2	•	ı				
Semester 1	Cr	Status	Semester 2	Cr	Status	
CS 2100 - Intermediate Programming	4		Catamount Core (WIL2 Writing & Information Literacy 2)	3		
STAT 2510 - Applied Probability MATH 1248 OR STAT 5510 - Probability Theory			CS 2870 - Basics of Data Science OR STAT 2870 - Basics of Data Science STAT 1410 or STAT 2430			
See catalogue	3			3		
MA: MATH 2522 - Applied Linear Algebra MATH 1248			STAT 3210 - Advanced Statistical Methods STAT 2830; Recommended: STAT 3010			
OR MA: MATH 2544 - Linear Algebra MATH 1248; Coreq: MATH 2248 or MATH 2055	3			3		
Catamount Core (AH Arts & Humanities)	3		CS 2240 - Data Struc & Algorithms	3		
N1 (no lab) or N2 (lab): Natural Science Course	3 - 4		Catamount Core (AH Arts & Humanities)	3		
Total credits	16 - 17		Total credits	15		
Year 3						
Semester 1	Cr	Status	Semester 2	Cr	Status	
CS 2500 - Intro to Database Systems CS1210	3		CS 3870 - Data Science I - Pinnacle OR STAT 3870 - Data Science I - Pinnacle CS 1210, STAT 1410 or STAT 2430	3		
STAT 3010 - Stat Computing & Data Analysis STAT 1410 or STAT 2430 or STAT 3210			CS 3540 - Machine Learning STAT 2510 or STAT 5510; MATH 2522 or MATH 2544 OR CS/STAT 3880 - Statistical Learning			
CS Elective (2000 level or above)	3		STAT 3210 CS 3240 - Algorithm Design & Analysis	3		
Catamount Core (Diversity 1)	3		CS 2240; Pre/Coreq: CS 2250; STAT 2430 or STAT 2510 Data Science Elective	3		
Catamount Core (S1 Social Science)	3		Catamount Core (S1 Social Science)	3		
Total credits	15		Total credits	15		
Year 4	•					
Semester 1	Cr	Status	Semester 2	Cr	Status	
CS 3920 - Senior Seminar			STAT 4810 - Capstone Experience cs 1210; STAT 3210 or STAT 5210; STAT 3010 or STAT 5010 OR STAT 3996 or CS/MATH 4996 - Undergraduate Honors Thesis			
Data Science Elective (3000 or above)	3		Professional Development Elective	3		
Catamount Core (SU Sustainability)	3		Data Science Elective (3000 or above)	3		
Data Science Elective (3000 or above)	3		Free Elective	3		
Free Elective	3		Catamount Core (GC Global Citizenship)	3		
Free Elective	3		Standard Core (See Global Citizenship)			
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Minimum Total Credits Required for Degree: 120

This document is an advising tool and should be used in combination with a student's degree audit, as well as the published Catalogue for 2024-2025 found at http://catalogue.uvm.edu/

Total credits

16

Total credits

Prerequisite courses are listed below the course name in italics. Prerequisites listed are only for courses, as relevant to your specific degree program, and may have other registration restrictions. Please refer to the catalogue.

- * Grade of C- or higher required
- ** Grade of C or higher required

Data Science Elective: Please refer to your degree audit to see course options.

<u>Catamount Core:</u> Students may take courses that fulfill more than one Catamount Core requirement, but they must still take at least 40 unique credits of courses that have been approved to fulfill Catamount Core requirements.