BACHELOR OF SCIENCE IN DATA SCIENCE

Catalogue 2022-2023

Student:

Date: Advisor:

netID:

Year 1					
Semester 1	Cr	Status	Semester 2	Cr	Status
QD: MATH 1234 - Calculus I	4		QD: MATH 1248 - Calculus II	4	
QD: STAT 1870 - Intro to Data Science	3		WIL (ENGL 1001, HCOL 1000) ²	3	
CEMS 1500 - CEMS First Year Seminar	1		Diversity 1 or 2 ² (D1/D2)	3	
QD: CS 1210 - Computer Programming I	3		Sustainability 1 ² (SU)	3	
Humanities Elective ¹	3		QD: MATH 2055/CS 1640 - Fund of Math/Discr Strct	3	
Total credits	14			16	

Year 2

Semester 1	Cr	Status	Semester 2	Cr	Status
QD: MATH 2522 or 2544 - (Applied) Linear Algebra	3		QD: STAT 2510 or 5510 - Applied Prob/Prob Theory	3	
Natural Science Sequence ³	4		Natural Science Sequence ³	4	
QD: CS 2100 - Intermediate Programming	4		QD: CS 2240 - Data Structures and Algorithms	3	
QD: STAT 1410/ STAT 2430	3		Diversity 1 ² (D1)	3	
			QD: STAT 3010 - Stat Computing & Data Analysis	3	
Total credits	14		Total credits	16	

Year 3

Semester 1	Cr	Status	Semester 2	Cr	Status
CS 3540 or CS 3880 or STAT 3880	3		Data Science Elective(2XX) ⁴	3	
Social Science Elective ¹	3		CS Elective (3XX)	3	
QD: CS 3040 - Database Systems	3		QD: STAT 3880 - Statistical Learning	3	
Data Science Elective ⁴	3		Data Science Elective(2XX) ⁴	3	
QD: STAT 3210 - Statistical Methods II	3		QD: STAT 5290 - Survival/Logistic Regression	3	
Total credits	15		Total credits	15	

Year	4
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Semester 1	Cr	Status	Semester 2	Cr	Status
QD: STAT 3870 - Data Science I	3		STAT 4810, STAT 3996, MATH/CS 4996 - Capstone	3	
QD: CS 3240 - Algorithm Design & Analysis	3		Data Science Elective(2XX) ⁴	3	
Professional Development Elective ¹	3		CS 3920 - Senior Seminar	3	
Free Elective	3		Free Elective	3	
Free Elective	3		Free Elective	3	
Total credits	15		Total credits	15	

Minimum Total Credits Required for Degree: 120

Ultilize degree audit or re-numbering widget (bit.ly/UVMWidget) to confirm courses.

1. Refer to the CEMS Program Electives for approved Humanities, Social Science, and Professional Development elective courses (https://www.uvm.edu/cems/cems-program-electives).

2. Students must fulfill the University Requirements - Diversity (D1/D2), Sustainability (SU), Foundational Writing & Information Literacy (FWIL), and Quantitative Reasoning (QR).

3. Refer to the catalogue for approved Natural Science courses.

4. Data Science Electives: Choose 12 Credits in Data Science (DS) electives selected from the list of approved courses in MATH/STAT/CS/CSYS/NR, with at least 9 of these credits at the 200-level (or above): . Additional courses, including special topics courses, may be granted approval if appropriate (consult faculty advisor)

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 2022-2023 found at http://catalogue.uvm.edu/