Bachelor of Science				**Student:**			
Data Science Major				**NetID:**	**Honors College**		
Catalogue 2019-20				**Advisor:**			
Course # Description	*Course Credits*	*Credits Earned*	Grade	*Course # Description*	*Course Credits*	*Credits Earned*	*Grade*
Required Courses				**Data Science Electives***			
CS 064 - Discrete Structures or MATH 052 - Fundamentals of Mathematics	**3**			***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):** Options include CS 120, 148, 166, 167, 205, 224, 228, 231, 251, 254, 256, 302, 332, 352; MATH 121, 173, 235, 237, 266, 268, 300, 303; STAT 183, 224, 225, 231, 233, 235, 241, 288, 330, 387; NR 143; CE 359, 369. Alternative Courses may be approved by the DS Curriculum Committee.			
STAT 151 or STAT 251 or CS 128	**3**						
(min 6)							
CS Core							
CS 008 - Intro to Website Dev	3						
CS 021 - Programming I	3						
CS 110 - Intermediate Prog.	3						
CS 124 - Data Structures	4						
CS 204 - Database Systems	3						
CS 224 - Algorithm Design & Analysis	3						
CS ≥ 1XX	3						
(min 22)				**(min 12)**			
STAT Core				**Science sequence in PHYS, CHEM or BIOL**			
STAT 087 - Introduction to Data Science	3			PHYS 051 - Fundamentals of Physics I	4		
STAT 141 or STAT 143 or STAT 211	3			PHYS 152 - Fundamentals of Physics II	4		
STAT 221 - Statistical Methods II	3			CHEM 031 - General Chemistry I	4		
STAT 201 - Stat Computing & Data Analysis	3			CHEM 032 - General Chemistry II	4		
STAT 223 - Applied Multivariate Analysis	3			BIOL 001 - Principles of Biology	4		
STAT 229 - Survival/ Logistic Regression	3			BIOL 002 - Principles of Biology	4		
STAT/ CS 287 - Data Science I	3			**(min 8)**			
(min 21)				**University Requirements**			
MATH Core				D1 diversity	3		
Math 021 - Calculus I	4			D1 or D2 diversity	3		
Math 022 - Calculus II	4			FWIL: Foundational Writing and Info Literacy: HCOL 085	3		
MATH 124 - Linear Algebra or MATH 122 - Applied Linear Algebra	3			SU: Sustainability	3		
MATH ≥ 1XX	3			**(min 9)**			
MATH ≥ 1XX	3			**Free Electives**			
MATH ≥ 1XX	3			Students are encouraged to use free elective credits to complete a minor in an area of application (e.g., biology, social sciences).			
(min 20)				HCOL 086	3		
				HCOL 185	3		
Credit Summary				HCOL 186	3		
Left column credits (69 min):				CEMS 101	1		
Right column credits (51 min):				Honors Thesis*	6		
Total Credits Required (120 min):							
				(min 22)			
				***Honors Thesis credits may be applied to the CS Core, MATH Core, or Data Science Electives, per Advisor approval.**			

This document is an advising tool and should be used with both the student's individual degree audit on the myUVM portal as well as the officially published Catalogue for 2019-2020 found at http://catalogue.uvm.edu/