Bachelor of Science				Student:			
Data Science Major				NetID:			
Catalogue 2019-20				Advisor:			
Catalogue 2019-20				Advisor:			
	Course	Credits			Course	Credits	
Course # Description	Credits	Earned	Grade	Course # Description	Credits	Earned	Grade
Required Courses				Data Science Electives*			
CS 064 - Discrete Structures or			1		1	1	
MATH 052 - Fundamentals of Mathematics	3			*Choose 12 Credits in Data Science (DS) electives			
STAT 151 or STAT 251 or CS 128	3			approved courses in MATH/STAT/CS/CSYS/NR, at the 200-level (or above): Options include CS 120			
(min 6)				231, 251, 254, 256, 302, 332, 352; MATH 121, 173,			
CS Core				STAT 183, 224, 225, 231, 233, 235, 241, 288, 330, 3			
CS 008 - Intro to Website Dev	3			Alternative Courses may be approved by the DS Curr	riculum Co	mmittee.	
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		
				FWIL: Foundational Writing and Info Literacy			
Math 022 - Calculus II MATH 124 - Linear Algebra or MATH	4		+	(ENGS 001 or HCOL 085)	3		
122 - Applied Linear Algebra MATH	3			SU: Sustainability	3		
MATH≥1XX	3			(min 9)	3		
MATH≥1XX MATH≥1XX	3			Free Electives			
MATH≥1XX MATH≥1XX	3			Students are encouraged to use free elective credits to	0.000-1-1	o mir:	on one - C
(min 20)	3			application (e.g., biology, social sciences).	o complete	a minor in	an area or
(11111 20)				application (e.g., blologj, social sciences).			
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Credit Summary							
Left column credits (69 min):							
Right column credits (51 min):		1					
Total Credits Required (120 min):		1					
Aryuneu (220 mm).		<u> </u>					
This document is an advising tool and should be							
both the student's individual degree audit on th			1				
portal as well as the officially published Catalogue for			1	(min 22)			
2019-2020 found at http://catalogue.uvm.	edu/			(mm 22)			
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