Bachelor of Science Data Science Major Catalogue 2019-20					Student: NetID: Advisor:						
Course # Description		<u>Course</u> <u>Credits</u>	<u>Credits</u> <u>Earned</u>	Grade	Course #	Description_		<u>Course</u> <u>Credits</u>	<u>Credits</u> Earned	Grad	
Required Courses					Data Science	ce Electives*					
CS 064 - Discrete Structures or MATH 052 - Fundamentals of Mathematics STAT 151 or STAT 251 or CS 128	I 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 credi at the 200-level (or above): Options include CS 120, 148, 166, 167, 205, 224, 223					
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	(1111 22)				Science seg	uence in PHYS, CHEM					
STAT 087 - Introduction to Data Science		3				Fundamentals of Physics		4			
STAT 141 or STAT 143 or STAT 211		3				Fundamentals of Physics		4			
STAT 221 - Statistical Methods II		3				- General Chemistry I		4			
STAT 201 - Stat Computing & Data Analysis		3				- General Chemistry II		4			
STAT 223 - Applied Multivariate Analysis		3				Principles of Biology		4			
STAT 229 - Survival/ Logistic Regression		3				Principles of Biology		4			
STAT/ CS 287 - Data Science I		3			5102 002	r menpies of Brology	(min 8)	-			
	(min 21)				University	Requirements	(1111 0)				
MATH Core	()				D1 diversity	•		3			
Math 021 - Calculus I		4			D1 or D2 di			3			
						dational Writing and Info	o Literacy	-			
Math 022 - Calculus II		4			(ENGS 001	or HCOL 085)		3			
MATH 124 - Linear Algebra or	MATH										
122 - Applied Linear Algebra		3			SU: Sustain	ability		3			
MATH 1XX		3					(min 9))			
MATH 1XX		3			Free Electiv	ves					
MATH 1XX		3			Students are	e encouraged to use free e	elective credits (o complete	a minor in	an area	
	(min 20)				application	(e.g., biology, social scier	nces).				

Right column credits (51 min): Total Credits Required (120 min):

(min 22)