

Bachelor of Science in Data Science Catalogue 2016-17				Student:				
				Advisor:				
<u>Course #</u>	<u>Description</u>	<u>Course Credits</u>	<u>Credits Earned</u>	<u>Grade</u>	<u>Course #</u>	<u>Description</u>	<u>Courses Credit</u> <u>s Earned</u>	<u>Grade</u>
Required Courses								
CS 064 - Discrete Structures or MATH 052 - Fundamentals of Mathematics		3			Data Science Electives*** 12			
STAT 151 or STAT 251 or CS 128		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, 205, 224, 228, 231, 251, 256, 302, 332, 352; MATH 121, 173, 235, 237, 266, 268, 300, 303; STAT 183, 224, 225, 231, 233, 235, 241, 330, 387; NR 143; CE 359, 369. Alternative Courses may be approved by the DS Curriculum Committee.			
CS Core 22								
CS 008 - Intro to Website Dev		3						
CS 021 - Programming I		3						
CS 110 - Intermediate Prog.		3			Science sequence in PHYS, CHEM or BIOL 8			
CS 124 - Data Structures		4			PHYS 051 - Fundamentals of Physics I 4			
CS 204 - Database Systems		3			PHYS 152 - Fundamentals of Physics II 4			
CS ≥ 1xx		3			CHEM 031 - General Chemistry I 4			
CS ≥ 2xx		3			CHEM 032 - General Chemistry II 4			
STAT Core 21								
STAT 087 - Introduction to Data Science		3			BIOL 001 - Principles of Biology 4			
STAT 141 or STAT 143 or STAT 211		3			BIOL 002 - Principles of Biology 4			
STAT 221 - Statistical Methods II		3			Free Electives 19			
STAT 201 - Stat Computing & Data Analysis		3			Students are encouraged to use free elective credits to complete a minor in an area of application (e.g., biology, social sciences).			
STAT 223 - Applied Multivariate Analysis		3						
STAT 229 - Survival/ Logistic Regression		3						
STAT 287 - Data Science I		3			University Requirements 12			
MATH Core 20								
Math 021 - Calculus I		4			D1 diversity 3			
Math 022 - Calculus II		4			D1 or D2 diversity 3			
MATH 124 - Linear Algebra or MATH 122 - Applied Linear Algebra		3			FWIL: Foundational Writing and Information Literacy (e.g., ENGS 001 or HCOL 085) 3			
MATH ≥ 1xx		3			SU: Sustainability 3			
MATH ≥ 1xx		3						
MATH ≥ 1xx		3						