

Bachelor of Science - Data Science, Stat Track - 120 Credits

		Fall Semester		Spring Semester		
Freshman	CS 100	Roadmap to Computing	3	CS 113	Introduction to Computer Science I	3
	HUM 101	English Composition: Writing, Speaking, Thinking I	3	HUM 102	English Composition: Writing, Speaking, Thinking II	3
	MATH 111	Calculus I	4	MATH 112	Calculus II	4
	PHYS 111	Physics I	3	PHYS 121	Physics II	3
	PHYS 111A	Physics I Lab	1	PHYS 121A	Physics II Lab	1
	FRSH SEM	Freshman Seminar	0			
		Credits:		14	Credits:	
Sophomore	CS 114	Introduction to Computer Science II	3	CS 241	Foundations of Computer Science I	3
	MATH 244	Introduction to Probability Theory	3	CS 280	Programming Language Concepts	3
	Lower Humanities GER	Any 200-level course from COM, ENG, HIST, HUM, LIT, PHIL, STS, or THTR	3	MATH 341	Statistical Methods II	3
	MATH 337	Linear Algebra	3	MATH 213	Calculus III B	4
	Social Science / Management GER	ENTR 410, HRM 301, IE 492, MGMT 390, or any 200-level course from ECON/EPS	3	Data Science Elective 1	Select from Data Science Elective list in the catalog	3
		Credits:		15	Credits:	
Junior	MATH 340	Applied Numerical Methods	3	MATH 345	Multivariate Distributions	3
	MATH 344	Regression Analysis	3	MATH 447	Applied Time Series Analysis	3
	MATH 391	Numerical Linear Algebra	3	MATH 478	Statistical Methods in Data Science	3
	CS 301	Introduction to Data Science	3	Upper Humanities GER	Any 300-level course from COM, ENG, HIST, HUM, LIT, PHIL, STS, or THTR	3
	Upper Humanities GER	Any 300-level course from COM, ENG, HIST, HUM, LIT, PHIL, STS, or THTR	3	Data Science Elective 2	Select from Data Science Elective list in the catalog	3
		Credits:		15	Credits:	
Senior	CS 450	Data Visualization	3	MATH 463	Statistics and Statistical Learning Capstone 2	3
	MATH 448	Stochastic Simulation	3	Upper Math Elective	300-level or higher	3
	MATH 461	Introduction to Statistical Computing with SAS & R	3	Data Science Elective 4	Select from Data Science Elective list in the catalog	3
	MATH 462	Statistics and Statistical Learning Capstone 1	3	Humanities Capstone	HSS 400-level	3
	Data Science Elective 3	Select from Data Science Elective list in the catalog	3	Free Elective		4
		Credits:		15	Credits:	