

BS in Data Science – FOUR-YEAR PLAN**Freshman Year**

First Semester	Credits	Second Semester	Credits
COSC 111 Fundamentals of Computer Science & Data Concepts	3	COSC 211 Programming for Data Science	3
MATH 155 Probability and Statistics	3	Math 225 Calculus I	4
ENGL 101 Expository Writing	3	COSC 112 Computer Science I	4
FRSE 101 Freshman Seminar	3	ENGL 102 Argument and Research	3
COMM 101 Oral Communications	3		
<i>Total:</i>	15	<i>Total :</i>	14

Sophomore Year

First Semester	Credits	Second Semester	Credits
COSC 113 Computer Science II	4	COSC 208 Discrete Structures	3
HIST 114 or 115 African American History	3	Arts and Humanities Gen Ed Elective	3
COSC 311 Data Science	3	Health and Wellness Elective	3
BIOL 102 Introductory Biology	4	COSC 214 Data Structures and Algorithms	4
		MATH 228 Linear Algebra	3
<i>Total:</i>	14	<i>Total:</i>	16

Junior Year

First Semester	Credits	Second Semester	Credits
COSC 428 Design and Analysis of Algorithms	3	COSC 465 Software Engineering	3
COSC 431 Database Management	3	COSC 439 Big Data Systems	3
COSC 381 Cloud Computing Fundamentals	3	COSC 473 Artificial Intelligence	3
COSC 429 Data Visualization	3	ENGL 362 Technical Writing for Computer Science	3
CHEM 107 General Chemistry	4	COSC 474 Machine Learning and Discovery	3
<i>Total:</i>	16	<i>Total :</i>	15

Senior Year

First Semester	Credits	Second Semester	Credits
COSC 478 Deep Learning and Visual Recognition	3	Free Elective	3
COSC 470 Data Privacy, Ethics, and Professionalism	3	COSC 482 Data Science in Context	3
Data Science Elective	3	Social Science/Behavioral Elective	3
Data Science Elective	3	Data Science Elective	3
Free Elective	3	Data Science Elective	3
<i>Total:</i>	15	<i>Total :</i>	15

