

BS: Data Science (2020-21)

First Year

Fall Semester			Spring Semester		
MATH	191 Calculus I	4	MATH	192 Calculus II	4
CPTR	151 Computer Science I	3	CPTR	152 Computer Science II	3
STAT	285 Intro to applied statistics	3	CPTR	230 Data Science Fundamentals	3
ENGL	115 College Writing I	3	ENGL	215 College Writing II	3
RELT	100 or RELB 210	3	INEN	221 Intro to Innovation & Entrep	3
			MATH	395 Math colloquium	0
		<u>total</u> 16			<u>total</u> 16

Second Year

Fall Semester			Spring Semester		
MATH	215 Intro to Linear Algebra	3	MATH	355 Fnd of Adv Math	3
CPTR	276 Data Structures & Algorithms	3	INFS	428 Database	3
CPTR	420 Data Visualization & Mining	3	COGNATE	Science or Social Science	4
COGNATE	Science	4	COMM	104 Communication Skills	3
ACE	Religion (RELB, RELG, RELT)	3	HLED	135 Wellbeing 360	3
MATH	395 Math colloquium	0			
		<u>total</u> 16			<u>total</u> 16

Third Year

Fall Semester			Spring Semester		
CPTR	435 Machine Learning	3	STAT	340 Probability theory	3
COGNATE	Social Science	3	CPTR	487 Artificial Intelligence	3
COGNATE	Track specific course	3	CPTR	350 Big Data Management	3
COGNATE	Track specific course	3	ACE	History	3
RELT	340 Religion and Ethics	3	COGNATE	Track specific course	3
		<u>total</u> 15			<u>total</u> 15

Fourth Year

Fall Semester			Spring Semester		
MATH	426 Math Modeling	3	MATH	Math elective	3
CPTR	430 Analysis of Algorithms	3	COGNATE	Track specific course	3
COGNATE	Track specific course	3	COGNATE	Track specific course/elective	3
COGNATE	Track specific course	3	ACE	Physical Activity	1
ACE	Religion (RELB, RELG, RELT)	3	ACE	Art/Humanity	3
		<u>total</u> 15		General elective	2
				<u>total</u> 15	

Total credits 124