

FALL 2025

1 st Semester - Fall			Term	Grade	Students need to pass a total of 30 GER credits. Categories 1-5 are required, and students choose three different GERs from the remaining categories.
CYBR 153	Computer Logic & Algorithms	3			
DATA 155	Survey of Data Science	3			
ENGL 101	Composition and the Spoken Word (GER 1/2)	3			
MATH	Math Elective ¹ (GER 4)	3-4			
	Natural Science Elective (GER 5)	3-4			
2nd Semester - Spring					Required Categories
CYBR 172	Computer Fundamentals	3			(1) Communication: Written
MATH 121 or MATH 123	College Algebra or Pre-Calculus	4			
MATH 141	Statistics (GER 4)	3			(2) Communication: Oral
	Liberal Arts Elective (GER 3)	3			(3) Diversity: Equity, Inclusion, Social Justice
	Liberal Arts Elective (GER 6,8,9,10,11)	3			
3rd Semester - Fall					(4) Mathematics & Quantitative Reasoning
CYBR 181	Programming Fundamentals	4			
CYBR 216	Database Fundamentals	3			(5) Natural Science & Scientific Reasoning
DATA 230	Applied Data Science – R Programming	3			
MATH 161	Calculus I	4			(6) Humanities
	Liberal Arts Elective (GER 6,8,9,10,11)	3			(7) Social Science
4th Semester - Spring					(8) The Arts
DATA 240	AI Fundamentals	3			
DATA 315	Data Mining & Machine Learning	3			(9) US History & Civic Engagement
	Liberal Arts Elective (GER 7)	3			
	Liberal Arts Elective (Any GER)	3			(10) World History & Global Awareness
	Liberal Arts Elective	3			
5th Semester - Fall					(11) World Languages
DATA 320	Data Security and Privacy **(WI)	3			
MATH 351	Discrete Mathematics	3			REPEATED CATAGORIES
DATA 371	Methods of Data Representation	3			
	Liberal Arts Elective	3			
	General Elective	3			
6th Semester - Spring					Progress Notes:
DATA 415	Ethics in Data Science	3			
DATA 420	Advanced Data Mining & Machine Learning	3			
DATA 421	Deep-Learning Fundamentals	3			
	Liberal Arts Elective	3			
	General Elective	3			
7th Semester - Fall					
DATA 321	Big Data Fundamentals	3			
	UL ³ Liberal Arts Elective	3			
	UL ³ Liberal Arts Elective	3			
	UL ³ Liberal Arts Elective	3			
8th Semester - Spring					
	UL ³ General Elective	3			
	UL ³ Liberal Arts Elective	3			
	UL ³ Liberal Arts Elective	3			
DATA 485	Internship OR	6			
	UL ³ Program Elective ²	3			
	UL ³ Program Elective ²	3			** (WI) writing intensive course
	TOTAL CREDITS (120-122)				Fall 25

¹ MATH 106 or higher

²Program Elective – CYBR, CITA, JUST, DATA

³UL – 300, 400 level courses