Degree Requirements						
Course (Credits)						
CORE (30 credits + 1 credit EVN course)	DS Concentration (12 cred cred	its) CS Concentration (12 lits)	Free Electives (6 credits)			
all are required	choose 4 courses from	n either concentration	choose any 2 courses (or from concentration courses)			
CS310 Theory of Computing CS312 OOAD (or CS323 Advanced OOP) CS312 Advanced Topics in Algorithms CS322 Software Engineering CS326 Database Systems CS340 Machine Learning CS350 Software Project Management DS330 Deep Learning** CS395 Capstone Preparation (2 nd year standing) CS396 Capstone Thesis (or CS390 Capstone Practicum) (2 nd year standing) ENV***- 1 credit env. requirement	choose 4 courses from either concentration CS319 Computer Vision CS355 Entrepreneurship CS371 Image Processing Quantum Computing					
	CS342 Data Science CS343 Data Visualization CS345 Bioinformatics	CS315 Cryptography CS317 Computer Graphics CS331 Operating Systems				
	CS346 Artificial Intelligence CS362 Time Series Analysis	CS336 Compiler Design CS337 Cybersecurity				

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	Bayesian Statistics	CS314 Theory of Communication Networks CS333 Network Programming	
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PREPARATORY COURSES	
IESM106 Probability & Statistics	
CS111 Discrete Mathematics	
CS120 Introduction to OOP	
CS121 Data Structures	
CS130 Computer Organization	
CS211Introduction to Algorithms	

* All courses are 3 credits unless otherwise noted