

12 Month Schedule - Three Courses Per Month			
UMSI MADS Program	Semester 1	Semester 2	Semester 3
Month 1	Being a Data Scientist	Milestone I	Milestone II
	SQL & Databases	Supervised learning	Experiment Design and Analysis
	Data Manipulation	Causal Inference	Network Analysis
Month 2	Math Methods for Data Science	Database Architectures and Technologies	Qualitative Inquiry for Data Scientists
	Efficient Data Processing	Unsupervised Learning	Information Visualization II
	Information Visualization I	Data Mining II	Learning Analytics
Month 3	Big Data: Scalable Data Processing	Deep Learning	Social Media Analytics
	Visual Exploration of Data	Machine Learning Pipelines	Capstone
	Data Science Ethics	Information retrieval	-
Month 4	Data Mining I	Presenting Uncertainty	Capstone
	Milestone I	Milestone II	Capstone
	Communicating Data Science Results	Applied Natural Language Processing	-
Number of Credits	12	12	10