Master of Science in Business Analytics

Curriculum

Course	Title	Credits
Pre-Program Foundation Courses		
Students with the appropriate background may be waived from the following course:		
GR 521	Managerial Statistics	3
Program Requirements		**30**
Required Analytics Courses		**21**
CS 605	Data Management and SQL for Analytics	3
IPM 652	Managing with Analytics	3
MA 610	Optimization and Simulation for Business Decisions	3
MA 611	Time Series Analysis	3
MA 710	Data Mining	3
ST 625	Quantitative Analysis for Business	3
ST 635	Intermediate Statistical Modeling for Business	3
Electives		**9**
Select any three courses from the following electives or, with permission from the MSBA program director, any 600-level or higher elective.		
CS 602	Data-Driven Development With Python	
CS 603	Object-Oriented Application Development	
CS 612	Web-Based Application Development	
CS 650	Data Management Architectures	
CS 733	Artificial Intelligence Techniques and Applications	
MG 630	Emotionally Intelligent Leadership	
EC 611	The Macroeconomics of Financial Markets	
EC 631	Market Structure and Firm Strategy	
FI 623	Investments	
FI 635	Fixed Income Valuation and Strategies	
FI 640	Equity Valuation	
FI 645	Derivatives	
GR 602	Business Process Management	
GR 603	Leading Responsibly (with Program Director Permission)	
HF 730	Visualizing Information	
IPM 723	Information Security, Controls and Ethics	
IPM 755	Special Topics in Information and Process Management	
MA 705	Data Science	
MA 706	Design of Experiments for Business	
MA 707	Introduction to Machine Learning	
MG 632	Leading Effective Work Teams	
MG 635	Negotiating	
MG 645	Leading Change	
MK 711	Marketing Research and Analysis	
MK 725	E-Marketing	

Course	Title	Credits
Electives		**9**
MK 726	Customer Data Analysis and Relationship Marketing	
MK 758	Enhancing Creativity	
ST 701	Internship in Business Data Analysis	
MA 799	Experimental Course in MA	
CS 753	Business Intelligence Methods and Technologies	

Please Note: All course work must be completed within five years.