

BUSINESS ANALYTICS AND RISK MANAGEMENT (PART TIME), MASTER OF SCIENCE

The Master of Science in Business Analytics and Risk Management (BARM) full-time program equips students to improve decision making processes based on a rigorous treatment of data and information. Students gain knowledge on different types of analytics methodologies, tools used to acquire and analyze data, derive insights from the data, and effectively communicate the results for a better decision making in a volatile business environment. Business Analytics and Risk Management program develops managers and leaders with the knowledge and skills to anticipate and manage risks, while leveraging unique opportunities in chaotic environments.

The program also addresses how to lead and manage organizations during periods of dramatic change or crisis.

A Master of Science in Business Analytics and Risk Management provides graduates with the tools and knowledge to:

- Convert raw data into useful information
- Present that information in compelling ways
- Use information to understand complex decision settings
- Create rigorous approaches to problem solving
- Construct persuasive arguments based on careful analysis
- Use information to diagnose problems
- Use analysis to prescribe approaches to improve performance
- Develop ways to predict future performance
- Improve decision making at all levels
- Add value to any organization in need of more analytical expertise
- Develop a thorough understanding of risk
- Protect shareholder value by managing the downside of risk

Program Requirements

The program requires 36 credits. Part-time students must complete the program within six years.

Curriculum

The curriculum for the Master of Science in Business Analytics and Risk Management program includes the following courses. Course sequence and availability of specific electives may vary. Students must consult with an academic advisor to ensure that they take courses in the approved sequence. All courses are 2 credits.

Code	Title	Credits
Business Foundations		
BU.210.620	Accounting and Financial Reporting	2
BU.520.601	Business Analytics	2
BU.120.601	Business Communication	2
BU.131.601	Business Leadership and Human Values	2
BU.231.620	Corporate Finance	2
BU.350.620	Information Systems	2
BU.410.620	Marketing Management	2
BU.680.620	Operations Management	2

BU.510.601	Statistical Analysis	2
Functional Core		
BU.520.620	Advanced Business Analytics	2
BU.510.650	Data Analytics	2
BU.610.615	Simulation for Business Applications	2
Elective Courses		12
Students must complete 6 elective courses. At least 2 of these courses must be from the Quantitative Electives section.		
<i>Quantitative Electives</i>		
Select at least two of the following:		
BU.520.710	Big Data Machine Learning	
BU.232.650	Continuous Time Finance	
BU.450.760	Customer Analytics	
BU.330.780	Data Science and Business Intelligence	
BU.520.650	Data Visualization	
BU.610.630	Pricing and Insuring Risk	
BU.450.740	Retail Analytics	
BU.610.760	Supply Chain Analytics	
BU.330.760	Deep Learning with Unstructured Data	
<i>General Electives:</i>		
BU.132.601	Business Law	
BU.231.720	Corporate Governance	
BU.610.705	Crisis Management	
BU.330.730	Cybersecurity	
BU.520.701	Enterprise Risk Management Frameworks	
BU.230.750	Financial Crises and Contagion	
BU.300.620	Managing Complex Projects	
BU.230.730	Managing Financial Risk	
Total Credits		36