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

The Master of Science in 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. This program is designed to teach how to quantify risks and manage processes to change or respond to those risks.

The program also addresses how to lead and manage organizations during periods of dramatic change or crisis. Coursework provides exposure to a variety of areas of risk management and provides tools to integrate the management of a portfolio of risks that an Enterprise will face.

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

- Develop a thorough understanding of risk
- Protect shareholder value by managing the downside of risk
- Position the organization to better leverage the upside of uncertain outcomes
- Develop plans to protect reputation, information, financial assets, and personnel
- Improve decision making at all levels of the organization

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU.210.620</td>
<td>Accounting and Financial Reporting</td>
<td>2</td>
</tr>
<tr>
<td>BU.520.601</td>
<td>Business Analytics</td>
<td>2</td>
</tr>
<tr>
<td>BU.120.601</td>
<td>Business Communication</td>
<td>2</td>
</tr>
<tr>
<td>BU.131.601</td>
<td>Business Leadership and Human Values</td>
<td>2</td>
</tr>
<tr>
<td>BU.231.620</td>
<td>Corporate Finance</td>
<td>2</td>
</tr>
<tr>
<td>BU.350.620</td>
<td>Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>BU.410.620</td>
<td>Marketing Management</td>
<td>2</td>
</tr>
<tr>
<td>BU.680.620</td>
<td>Operations Management</td>
<td>2</td>
</tr>
<tr>
<td>BU.510.601</td>
<td>Statistical Analysis</td>
<td>2</td>
</tr>
<tr>
<td>BU.520.620</td>
<td>Advanced Business Analytics</td>
<td>2</td>
</tr>
<tr>
<td>BU.510.650</td>
<td>Data Analytics</td>
<td>2</td>
</tr>
<tr>
<td>BU.610.615</td>
<td>Simulation for Business Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

Students must complete 6 elective courses. At least 2 of these courses must be from the Quantitative Electives section.

**Quantitative Electives**

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

**General Electives:**

- 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