The Business Intelligence & Analytics program provides the analytical and professional skills necessary to incorporate data-driven findings in making decisions. This interdisciplinary program offers a deep dive into the concepts and tools at the forefront of the data revolution, with coursework emphasizing programming languages as well as business and leadership skills. **Please note:** Certain online courses may only be available during particular semesters. Consult your advisor for complete details.

**CURRICULUM OVERVIEW**

The curriculum offers a blend of analytics, computer science and business skills, preparing data scientists to do meaningful work that directly supports the enterprise.

**PREREQUISITE COURSES**

Students are required to have taken one year of calculus and one course covering basic probability, hypothesis testing and estimation.

**MANAGEMENT**

A suite of classes to help you frame problems and apply analytical methods.

- Financial Decision Making
- Marketing Analytics*
- Supply Chain Analytics*

**RISK & OPTIMIZATION**

These courses focus on managing risk and optimizing processes.

- Risk Management and Simulation*
- Process Optimization and Analytics

**DATA**

Technology-intensive data courses will teach you the latest tools.

- Data Management
- Data Warehousing and Business Intelligence
- Data and Information Quality*

**MACHINE LEARNING**

This block of cutting-edge courses includes offerings in social network analytics.

- Data Analytics and Machine Learning
- Advanced Analytics and Machine Learning*
- Social Network Analytics
- Web Mining*

**DATA & ARTIFICIAL INTELLIGENCE**

These courses explore the hottest topics in data science, including blockchain and the internet of things.

- Big Data Technologies
- Blockchain Fundamentals and Applications*
- Data Stream Analytics*
- Cognitive Computing*

**STATISTICS**

Statistical techniques are an important tool for any data scientist or analyst exploring how to best create value through information.

- Multivariate Data Analytics
- Experimental Design

**CAPSTONE**

All students complete a capstone course that gives them an opportunity to use real data from an industry partner in analyzing a complex problem and suggesting an evidence-based course of action.

* Choose any two

**HANLON FINANCIAL SYSTEMS CENTER**

Classes in the Business Intelligence & Analytics program make generous use of the high-tech Hanlon Financial Systems Center and its two labs, which offer the latest in data analysis and visualization tools. The Hanlon Center allows for the analysis of real-time and historical data sets, with the computing and processing power required to assess vast amounts of information with speed. Courses teach students to go beyond advanced techniques and emphasize how data allows managers to create knowledge.

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