The master’s in Information Systems brings an analytics-intensive approach to topics like digital innovation, technology integration and IT strategy. Courses encourage information systems consultants, IT auditors and project managers to frame problems from the perspective of a CIO who drives organizational change through technology. New coding skills and leadership perspectives will turn you into a creative problem solver able to stay ahead of the rapid pace of technology.

**CURRICULUM OVERVIEW**

The curriculum is structured around a six-course block of information systems courses, supported by two courses in general management and four elective courses.

**MANAGEMENT**

Courses in this block provide essential management skills that prepare IT professionals to think about how their technical abilities are applied in a corporate setting.

- Project Management Fundamentals
- Financial Decision Making

**INFORMATION SYSTEMS**

These six courses challenge students to go beyond basic concepts in information systems and technology to become adept problem solvers whose analytical skills will be invaluable in supporting the growth of the enterprise.

- Data Management
- Applied Analytics
- Digital Innovation
- Process Innovation and Management
- Integrating Information Systems Technologies
- Information Technology Strategy

**SPECIALIZATION**

This program includes four electives to customize your studies. Students seeking more structure may choose from the below concentrations.

**BUSINESS INTELLIGENCE & ANALYTICS**

- Designing the Knowledge Organization
- Data Warehousing & Business Intelligence
- Data Analytics & Machine Learning
- Marketing Analytics

**BUSINESS PROCESS MANAGEMENT & SERVICE INNOVATION**

Choose four of the following.

- Supply Chain Management and Strategy
- Supply Chain Analytics
- Advanced Business Process Management
- Process Optimization and Analytics
- Service Innovation

**CYBERSECURITY RISK MANAGEMENT**

- Financial Cybersecurity
- Cybersecurity Principles for Managers
- Risk Management

Plus an additional cybersecurity elective

**PROJECT MANAGEMENT**

- Strategic Perspectives of Project Management
- Project Analytics
- Leader Development
- Advanced Project Management

**SOFTWARE ENGINEERING**

- Fundamentals of Software Engineering
- Agile Development
- Software Testing
- Software Requirements Analysis and Engineering

**HANLON FINANCIAL SYSTEMS CENTER**

Analytics-intensive classes in the Information Systems 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 work with incredibly vast amounts of information at great speed.

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