MS in Business Analytics/MS in Management Information Systems

Admission Requirements
Applicants must meet the admission criteria of both programs and are admitted separately to each through separate applications.

Degree Requirements
In addition to the Graduate College minimum requirements, students must meet the following program requirements:

- **Minimum Semester Hours Required**: 56.
- **Course Work**: Depending on their background, students may be required to take additional technical, business, and other background courses as part of the degrees' requirements.

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>IDS 521</td>
<td>Advanced Database Management</td>
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**Required Courses and Capstone—MS in Business Analytics (12 hours)**

- IDS 560: Analytics Strategy and Practice
- IDS 572: Data Mining for Business
- IDS 575: Machine Learning and Statistical Methods for Business Analytics

**Required Courses and Capstone—MS in Management Information Systems (16 hours)**

- IDS 517: Enterprise Application Development
- IDS 520: Enterprise Information Infrastructure Planning & Security

Select one of the following IS Management courses:

- IDS 514: Management of Information Systems
- IDS 515: Information Systems Strategy and Policy
- IDS 523: Audit and Control of Information Systems

Select one of the following Capstone Project Experience courses:

- IDS 507: Advanced Systems Analysis and Design Project
- IDS 508: E-Commerce Project
- IDS 596: Independent Study in Information and Decision Sciences

**Electives—MS in Business Analytics (12 hours)**
Select 12 hours from among the following analytics electives. Based on the student's background and interests, other analytics-related courses may be taken with the advice and approval of the director of graduate studies.

- IDS 435: Optimization for Analytics
- IDS 561: Analytics for Big Data
- IDS 564: Social Media and Network Analysis
- IDS 566: Advanced Text Analytics for Business
- IDS 567: Business Data Visualization
- IDS 576: Advanced Predictive Models and Applications for Business Analytics
- IDS 594: Special Topics in Information and Decision Sciences

**Electives—MS in Management Information Systems (12 hours)**
With the approval of the director of graduate studies, select three 4-hour courses. Of these, 4 hours may be electives from the list above. Courses from other departments and colleges may be taken as electives with the approval of the director of graduate studies. These courses may be selected to fit career tracks in IS Consulting, Auditing and Forensics, Corporate IS Management, Supply Chain and Service Operations, Enterprise Applications or IS Operations.