MS in Business Analytics/MS in Finance

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.a

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS 521</td>
<td>Advanced Database Management</td>
<td></td>
</tr>
<tr>
<td>IDS 560</td>
<td>Analytics Strategy and Practice</td>
<td></td>
</tr>
<tr>
<td>IDS 572</td>
<td>Data Mining for Business</td>
<td></td>
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<tr>
<td>IDS 575</td>
<td>Machine Learning and Statistical Methods for Business Analytics</td>
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</tbody>
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**Required Courses—MS in Finance (12 hours)**

- FIN 510 Investments
- FIN 520 Corporate Finance
- FIN 570 Quantitative Methods in Finance

**Electives—MS in Business Analytics (8 hours)**

Select 8 hours from the following analytics electives. Students must select another 8 hours of analytics-related business electives to be chosen with the 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 Deep Learning and Modern Applications
- IDS 594 Special Topics in Information and Decision Sciences

**Electives—MS in Finance (12 hours)**

Select 12 hours from the following finance electives. Other finance electives may be taken with the advice and approval of the director of graduate studies.

- FIN 512 Portfolio Analysis
- FIN 516 Theory and Structure of Options and Futures Markets
- FIN 530 Money and Banking
- FIN 531 Capital Markets
- FIN 542 International Finance
- FIN 551 Financial Decision Making I
- FIN 571 Empirical Issues in Finance

**Shared Electives**
Preapproved suggestions for the 8 hours of shared courses across two degrees are listed below. Students must work with the directors of graduate studies of both programs to identify other appropriate courses.

- FIN 510 Investments
- FIN 512 Portfolio Analysis
- FIN 516 Theory and Structure of Options and Futures Markets
- IDS 521 Advanced Database Management
- IDS 560 Analytics Strategy and Practice
- IDS 561 Analytics for Big Data
- IDS 564 Social Media and Network Analysis
- IDS 566 Advanced Text Analytics for Business
- IDS 572 Data Mining for Business
- IDS 573 Risk Management
- IDS 575 Machine Learning and Statistical Methods for Business Analytics
- IDS 576 Deep Learning and Modern Applications

**Prerequisites**
- **Prerequisites for the MS in Business Analytics** include two business prerequisites in any two functional areas of business (ACTG 500, FIN 500, IDS 532, or MKTG 500); technical prerequisites of business statistics (IDS 570); and database/programming (at the level of IDS 410 or equivalent). Business prerequisites may be waived based on equivalent prior course work or appropriate work experience in the functional area.
- **Prerequisites for the MS in Finance** are ACTG 500, FIN 500, IDS 570, and ECON 520.