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.
- **Coursework** Depending on their background, students may be required to take additional technical, business, and other background courses as part of the degrees' requirements.[a]

Code	Title	Hours
Required Courses—MS in Business Analytics (16 hours)		
IDS 521	Advanced Database Management	
IDS 560	Analytics Strategy and Practice	
IDS 572	Data Mining for Business	
IDS 575	Machine Learning and Statistical Methods for Business Analytics	
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.

Code	Title	Hours
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.

Code	Title	Hours
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	
FIN 594	Special Topics in Finance	
FIN 596	Independent Study 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.

Code	Title	Hours
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	

a
- *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 coursework or appropriate work experience in the functional area.*
- *Prerequisites for the MS in Finance are ACTG 500, FIN 500, IDS 570, and ECON 520.*