BUSINESS DATA ANALYTICS (MSBDA)

Position yourself as a data-driven business leader—and your company's data scientist—with an MS in Business Data Analytics.

This one-year, full-time graduate degree program will prepare you to make informed business decisions based on a targeted analysis of the data available to business today.

This program is no longer accepting applicants. Interested students should review the Business Analytics (MS) (https://catalog.luc.edu/graduate-professional/business/business-analytics-ms/).

Learn which of our analytics programs best fits your needs through our analytics degree program comparison (https://www.luc.edu/quinlan/academics/graduatedegrees/ms/choosingabusinessdataanalyticsprogram/).

Curriculum

This program is no longer accepting new applicants. Students should instead review the Business Analytics (https://catalog.luc.edu/graduate-professional/business/business-analytics-ms/) Master's program.

The Master of Science in Business Data Analytics 12-course curriculum prepares you to be a responsible leader in the fast-growing field of business data analytics—in just one year.

Code	Title	Hours
MBA Prerequisites		
ISSCM 400N	Quantitative Methods I	0
ISSCM 402N	Quantitative Methods II - Statistics Primer	0
MBA Introductory courses		
ACCT 400	Financial Accounting for Business Decisions	3
ECON 420	Managerial Economics	3
FINC 450	Financial Management	3
MARK 460	Marketing Management	3
SCMG 480	Intro to Operations Management	3
MBA Required Courses		
FINC 470N	Business Finance	3
HRER 417N	Managing and Motivating in the Workplace	3
ISSCM 596N	Data Driven Decision Making	3
MARK 425N	Business Communication	1.5
MGMT 426N	Leadership Development	1.5
MARK 470N	Research, Insights and Storytelling	3
MGMT 430N	Strategy and Leadership	3
MGMT 431N	Business Consulting Course	3
MSBDA Required courses		
QUIN 499	Special Topics	3
BSAD 699	Capstone Master of Business Data Analytics	3
FINC 620	Financial Mathematics and Modeling I	3
INFS 492	Database Systems	3
INFS 494	Data Mining	3
ISSCM 491	Managerial Statistics	3
ISSCM 495	Forecasting Methods	3
or FINC 625	Applied Econometrics	
Ethics course		**3**
Select one of the following:		
INFS 795	Ethics and Data Analytics	
ETHC 441N	Business Ethics	
MGMT 446	International Business Ethics	
Elective Courses		**12**
Choose four electives from the following three areas, with at least one elective from each of the areas.		
Economics/Finance		
ECON 421	Business Fluctuations	
ECON 522	Game Theory & Strategy	
ECON 622	Derivative Securities	
FINC 452	Investment Management	
FINC 553	Applied Portfolio Management	
FINC 624	Interest Rate Risk Management	
FINC 626	Credit Risk Management and Structured Finance	
FINC 628	Valuation	
Marketing Management		
MARK 461	Research Methods in Marketing	
MARK 661	Customer Analytics [1]	
MARK 662	Marketing Metrics [1]	
HRER 490	Analytical Problem Solving	
Information Systems and Supply Chain Management		
INFS 592	Data Visualization [1]	
INFS 796	Data Warehousing [1]	
ISSCM 484N	Project Management	
SCMG 480	Intro to Operations Management	
SCMG 486	Global Logistics	
SCMG 487	Purchasing Management	
SCMG 488	Inventory Management	
SCMG 489	Supply Chain Analytics	
Total Hours		**72**

[1] Recommended courses.

Suggested Sequence of Courses

The below sequence of courses is meant to be used as a suggested path for completing coursework. An individual student's completion of requirements depends on course offerings in a given term as well as the start term for a major or graduate study. Students should consult their advisor for assistance with course selection.

Course	Title	Hours
Master's		
Term 1		
Prerequisite Courses		
ECON 420	Managerial Economics	3
FINC 450	Financial Management	3
MARK 460	Marketing Management	3
	Hours	**9**
Term 2		
FINC 620	Financial Mathematics and Modeling I	3
ISSCM 491	Managerial Statistics	3

Select one from Electives		3
	Hours	**9**
Term 3		
QUIN 499	Special Topics	3
INFS 492	Database Systems	3
Select one from Electives		3
	Hours	**9**
Term 4		
INFS 494	Data Mining	3
ISSCM 495	Forecasting Methods	3
Select one from Electives		3
	Hours	**9**
Term 5		
BSAD 699	Capstone Master of Business Data Analytics	3
ETHC 441N	Business Ethics	3
Select one from Electives		3
	Hours	**9**
	Total Hours	**45**

Learning Outcomes

- Gain a deep understanding of some of the tools and software that are used in modern day analytics
- Be able to transform large data sets into insightful and actionable information in an easy-to understand format to assist organizational decision making using advanced analytical tools
- Develop skills in forecasting, modeling and problem solving
- Develop experience tackling industry-specific problems and challenges using advanced analytics and computational methods