

BUSINESS ANALYTICS (MS)

Master of Science in Business Analytics

Unit: College of Business (<http://business.louisville.edu/>) (GB)

Program Website (<https://business.louisville.edu/msba/degree-details/>)

Academic Plan Code(s): BUANMS, BUANMS_0

Program Information

The Master of Science in Business Analytics (MSBA) is an accelerated, cohort-based 13-month, three-semester program. Students work both in teams and independently in completing the coursework.

The MSBA curriculum combines information systems technologies, data modeling, and analytics with business acumen and impactful communications to develop the skills necessary to become a successful data scientist with excellent potential for professional growth. The program is also designed and delivered in close collaboration with local businesses providing a strong business orientation, increasing your skill relevance in the marketplace upon graduation.

Admission Requirements

- Completion of a graduate application (<http://louisville.edu/graduate/apply/>) along with application fee
- Provision of two letters of reference, a resume, and a personal statement
- Completion of an undergraduate degree along with official transcripts
- GMAT or GRE score: May be waived for applicants with significant work experience in the field of analytics or for applicants with significant academic exposure (e.g., major or minor) in a STEM or technical field

Program Requirements

The Master of Science in Business Analytics (MSBA) program requires a minimum of 30 credit hours for program completion. Currently, 22.5 credit hours are core and 7.5 credit hours are in electives.

Students also may enroll in up to three (3) additional credit hours in Analytics Internship courses spread across the program's three semesters.

Core Courses and Special Topics

Year 1		
Fall		Hours
MSBA 630	Modern Data Management	3.0
MSBA 605	Python for Analytics	3.0
MSBA 610	Data Visualization with Power BI	1.5
MSBA 615	R for Analytics	1.5
MSBA 620	Statistical Foundations of Business Analytics	3.0
Hours		12
Spring		
MSBA 635	Predictive Analytics	3.0
MSBA 645	Applied Machine Learning	3.0
MSBA 650	Advanced Analytical Tools	3.0
MSBA 680	Special Topics in Business Analytics (Elective course)	1.5
Hours		10.5
Summer		
MSBA 685	Analytics Internship (optional, spread across three semesters) ¹	1.0

MSBA 625	Storytelling with Data	1.5
MSBA 680	Special Topics in Business Analytics (Elective course)	6.0
Hours		7.5
Minimum Total Hours		30

Sequence of courses is subject to change.

¹ Optional internship, 1 credit hour per semester completed.