

Master of Science in Business Analytics Curriculum Planner, 2022-23

The University at Buffalo School of Management continuously strives to comply with Web Content Accessibility Guidelines to make documents accessible to visitors with disabilities using assistive technology. If you need help accessing any of this document's content, contact the School of Management Graduate Programs Office at 716-645-3200 or by email at mgtgsrv@buffalo.edu.

CORE CURRICULUM (12 credits)

Course Number	Course Title	Credits	Semester
MGQ 606	Statistical Foundations of Analytics	3	Fall
MGS 613	Database Management Systems	3	Fall
MGS 617	Spreadsheet and Statistical Programming for Business	3	Fall
MGS 626	Data Visualization	1.5	Spring
MGS 649	MS Practicum (culminating experience)	1.5	Spring

FOUNDATIONAL ANALYTICS FLEXCORE (6 credits)

Choose 2 courses below

Availability varies by semester. [Refer to catalog.](#)

Course Number	Course Title	Credits
MGG 633	Model Managerial Process	3
MGQ 603	Prescriptive Analytics	3
MGS 616	Predictive Analytics	3

APPLIED DOMAIN ANALYTICS FLEXCORE (3 credits)

Choose 1 course below

Availability varies by semester. [Refer to catalog.](#)

Course Number	Course Title	Credits
MGM 653	Digital Marketing Analytics	3
MGM 675	Marketing Analytics	3
MGO 636	Supply Chain Analytics	3
MGS 618	Special Topics: Cybersecurity Analytics	3
MGS 670	Health Care Analytics	3
MGF 634	Quantitative Methods in Finance	3

ELECTIVES (9 credits)

Choose 3 courses below and from next page.

Availability varies by semester. [Refer to catalog.](#)

Course Number	Course Title	Credits
EAS 503	Program and Database Fundamentals for Data Scientists	3
MGS 657	Online Analytical Processing: Data Warehousing	3
MGO 619	Business Forecasting	3
MGS 662	Optimization Methods for Machine Learning	3
MGO 631	Production and Inventory Planning	3
MGO 630	Operations and Service Management	3

Course Number	Course Title	Credits
MGO 638	Logistics Management	3
MGH 641	Business of Health Care	3
MGH 632	Health Care Strategy and Operations	3
MGF 641	Financial Policies and Strategies	3
MGM 667	Marketing Research	3
MGM 659	Marketing Planning	3
MGM 651	Consumer Behavior	3
MGS 653	Social Network Analytics	3
MGH 633	Health Care Economics	3
MGX ###	A course not taken in the Foundational Analytics Flexcore list	3
MGX ###	A second course from Applied Domain Analytics Flexcore list	3

SUMMARY

12 core credits + 6 foundational flexcore credits + 3 analytics flexcore credits + 9 elective credits = 30 credits required for degree