

Master of Science in Business Analytics Curriculum Planner, 2024-25

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CORE CURRICULUM (12 credits)

Course Number	Course Title	Credits	Semester
MGS 613	Database Management Systems	3	Summer
MGS 617	Spreadsheet and Statistical Programming for Business	3	Summer
MGQ 606	Statistical Foundations of Analytics	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 and Optimization	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
MGB 626	People Analytics	3
MGM 653	Digital 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
MGQ 610	Sports Analytics	3

ELECTIVES (9 credits)

Choose 3 courses below and from next page. Availability varies by semester. [Refer to catalog.](#)

Course Number	Course Title	Credits
MGS 657	Cloud Data Warehousing and Data Engineering	3
MGO 619	Business Forecasting	3
MGS 639	Cybersecurity, Privacy & Ethics	3

Course Number	Course Title	Credits
MGS 659	Web Analytics and Optimization Techniques for eCommerce	3
MGS 662	Optimization Methods for Machine Learning	3
MGO 631	Production and Inventory Planning	3
MGO 630	Operations and Service Management	3
MGH 641	Business of Health Care	3
MGH 632	Health Care Strategy and Operations	3
MGF 637	Financial Modeling	3
MGM 667	Marketing Research	3
MGM 659	Marketing Planning	3
MGM 651	Consumer Behavior	3
MGS 653	Social Network Analytics	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

Students may only enroll in 12 credits per semester.