

Management Science Masters of Business Administration - STEM Curriculum Planner (Single Degree, 60-Credit-Hour Plan), 2023-24

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CORE CURRICULUM (27 credits)

* STEM Core Courses

Course Number	Course Title	Credits	Semester
MGA 603	Financial Accounting for Managers	2	Fall 1
MGB 610	Organizational Behavior	2	Fall 1
MGF 611*	Financial Analysis for Managers	2	Fall 1
MGO 658	Entrepreneurship Foundations and Corporate Innovation	2	Fall 1
MGG 635	Management Communications	2	Fall 1
MGM 615*	Marketing for Managers	2	Fall 1
MGQ 608*	Statistical Analysis for Managers	3	Fall 1
MGA 605	Accounting for Management Decision-Making	2	Spring 1
MGE 604*	Business Economics	2	Spring 1
MGO 620*	Operations Management	2	Spring 1
MGO 640	Business Strategy	2	Spring 1
MGS 605*	Information Technology (IT) Managers	2	Spring 1
MGG 601	Corporate Social Responsibility/Sustainability	2	Spring 1

INTERNSHIP (3 credits)

Internship requirement can be waived with one year of full-time work experience. If waiver is approved, you must take 3 additional credits of electives.

Course Number	Course Title	Credits	Semester
MGX ###	Internship	3	Summer

STEM ELECTIVES (21 credits)

A minimum of 21 credits of STEM electives are required from the list below:

Course Number	Course Title	Credits
MGB 626	People Analytics	3
MGS 602	Information Technology and Cloud Infrastructure Management	3
MGS 613	Database Management Systems	3
MGS 614	Systems Analysis and Design	3
MGS 616	Predictive Analytics	3
MGS 618	Cybersecurity and Privacy	3
MGS 639	Cybersecurity and Privacy	3
MGS 642	IS Auditing for IT Managers	3
MGS 650	Information Assurance	3
MGS 653	Social Network Analytics	3

Course Number	Course Title	Credits
MGS 655	Distribution Computing and Big Data	3
MGS 657	Cloud Data Warehousing and Data Engineering	3
MGS 670	Health Care Analytics	3
MGF 633	Investment Management	3
MGF 634	Quantitative Methods in Finance	3
MGF 635	Financial Derivatives	3
MGF 636	Complex Financial Instruments	3
MGF 637	Financial Modeling	3
MGF 638	Fixed Income Securities	3
MGF 639	Security Training	3
MGF 644	Supervised Research: Fixed Income	3
MGF 645	Supervised Research: Equities	3
MGF 675	Multinational Banking and Finance	3
MGF 685	International Financial Management	3
MGF 696	Portfolio Theory and Strategy	3
MGG 633	Model Managerial Process	3
MGH 633	Health Care Economics	3
MGM 653	Digital Marketing Analytics	3
MGM 667	Marketing Research	3
MGO 619	Business Forecasting	3
MGO 633	Global Operations Management	3
MGO 636	Supply Chain Analytics	3
MGO 637	Purchasing and Supply Chain Management	3
MGO 638	Logistics Management	3
MGO 639	Sustainable Operations	3
MGQ 610	Sports Analytics	3

ADDITIONAL ELECTIVES (9 credits)

Choose any additional management courses to fulfill the remaining elective requirement of 9 credit hours. For course options, [refer to catalog](#).

Note: Elective course options may offer variable credit hours. Consult with your academic advisor to ensure appropriate credit hours for degree conferral. Total elective credit hours for degree conferral must be 30-33, depending on internship waiver.

SUMMARY

27 core credits + 3 internship credits + 30 elective credits (21 STEM electives + 9 electives) = 60 credits required for degree