

MASTER OF SCIENCE IN THE FIELD OF MANAGEMENT (STEM)

OVERVIEW

The master of science in management degree is a perfect example of the School of Business's innovative approach to graduate education, combining core coursework with a flexible selection of graduate certificate courses that serve as electives. This format gives students a high degree of flexibility in designing a program tailored to their specific interests and needs, while giving them the management essentials that will serve them throughout their careers. The program is also especially well-suited for liberal arts or STEM students without an undergraduate degree in business.

The master of science in management program can be completed in one year of full-time study—part-time options are available as well—and students can choose to study online, on-campus, or in a hybrid format. The degree is also eligible to be combined with some GWSB's undergraduate degree programs in the 4+1 Program (<https://business.gwu.edu/four-plus-one/>), allowing them to earn a bachelor's and a master's in five years.

Visit the program website (<https://business.gwu.edu/ms-in-management/#MiM-admissions>) for additional information.

ADMISSIONS

Candidates must submit the following as part of the application process:

- Online application form & fee
- GMAT (550 or higher) or GRE (V-150, Q-148 or higher) or approved Waiver Request Form (see below for waiver options).
- All university-level transcripts (unofficial or official)
- Resume
- Two (2) Letters of Recommendation
- Statement of Purpose Essay
- GRE or GMAT score waived for applicants who have a prior Master's degree, an undergraduate GPA over 3.5, or 5 years of relevant, professional, full-time work experience.
- International Applicants must also submit an official TOEFL score (Internet: 100, Computer: 250) or IELTS 7.0 Overall (no less than 6.0 in each category)

REQUIREMENTS

Code	Title	Credits
Foundational Courses		
MBAD 6211	Financial Accounting	

MBAD 6224	Decision Making and Data Analysis
MBAD 6235	Finance
SMPP 6204	Strategy Concepts

Program-focused courses	
MBAD 6263	Organizations and Human Capital
MBAD 6274	Marketing
MBAD 6289	Business Ethics and Public Policy

STEM electives	
9 credits in elective courses selected from the following:	

ACCY 6106	Financial Statement Analysis
ACCY 6202	Advanced Strategic Cost Management
ACCY 6501	Accounting Information Systems and Electronic Data Processing
DNSC 6209	Forecasting for Analytics
DNSC 6252	Risk Analysis for Decision Making
DNSC 6254	Risk Measurement and Management
DNSC 6257	Cost Estimation and Control
DNSC 6258	Collaborative Decision Making and Portfolio Optimization
DNSC 6262	Integrated Project Analytics
DNSC 6267	Planning and Scheduling
DNSC 6271	Agile Project Management
DNSC 6280	Supply Chain Analytics
DNSC 6303	Programming for Analytics *
DNSC 6311	Stochastic Foundation: Probability Models *
DNSC 6312	Statistics for Analytics I *
DNSC 6314	Machine Learning I *
DNSC 6315	Machine Learning II *
DNSC 6320	Pricing and Revenue Management
DNSC 6321	Social Network Analytics
DNSC 6323	Visualization for Analytics
DNSC 6325	Business Process Simulation
DNSC 6327	Sports Analytics

EMSE 6200	Policy Factors in Environmental and Energy Management **
EMSE 6220	Environmental Management **
EMSE 6225	Air Quality Management **
EMSE 6230	Hazardous Waste Management and Cleanup **
EMSE 6235	Water Quality Management **
EMSE 6245	Analytical Tools for Environmental Management **
EMSE 6260	Energy Management **
EMSE 6285	Analytical Tools for Energy Management **
EMSE 6305	Crisis and Emergency Management **
EMSE 6310	Information Technology in Crisis and Emergency Management **
EMSE 6315	Risk Management, Hazard Analysis, and Risk-Based Decision Making **
EMSE 6325	Medical and Public Health Emergency Management **
EMSE 6345	Building the Resilient Organization: Continuity, Crisis and Disaster Recovery Management **
EMSE 6350	Managing Disaster Resilience Through Hazard and Threat Mitigation **
FINA 6221	Financial Decision Making
FINA 6224	Financial Management
FINA 6223	Investment Analysis and Portfolio Management
FINA 6234	New Venture Financing
FINA 6239	Applied Portfolio Management
ISTM 6200	Python Program Database Applications
ISTM 6201	Information Systems Development and Applications
ISTM 6202	Relational Databases
ISTM 6203	Managing Cloud Security
ISTM 6204	Information Technology Project Management
ISTM 6206	Information Systems Security
ISTM 6209	Web and Social Analytics

ISTM 6213	Cloud Applications
ISTM 6214	Foundations of Artificial Intelligence
ISTM 6216	Mobile Application Development
ISTM 6217	Internet of Things Management
ISTM 6218	Business Applications of Artificial Intelligence
ISTM 6222	Digital Business Strategy
ISTM 6223	Technology Entrepreneurship
ISTM 6224	Management of Technology and Innovation
ISTM 6225	Cloud Foundations
ISTM 6233	Emerging Technologies
ISTM 6234	New Venture Financing
MKTG 6243	Marketing Research
MKTG 6258	AI Applications in Marketing
MKTG 6261	Dynamic Pricing Strategy
MKTG 6261	Dynamic Pricing Strategy
MKTG 6262	Digital Marketing Analytics
MKTG 6263	Marketing Decision Analytics
MKTG 6264	Artificial Intelligence and Machine Learning for Marketing Automation
MKTG 6265	Marketing Relational Databases and Customer Relationship Management
TSTD 6221	Tourism, Hospitality, and Event Market Analysis

*Enrollment is limited to students admitted to the graduate certificate in business analytics program.

**Enrollment is limited to students admitted to one of the following corresponding graduate certificates in the School of Engineering and Applied Science: business crisis, continuity, and recovery management; energy systems management; and environmental systems management.

The following requirements must be fulfilled: 30 credits, including 12 credits in foundational courses, 9 credits of program-focused courses, and 9 credits in STEM elective courses.