

Supply Chain Analytics MS

The Master of Science in Supply Chain Analytics is a STEM-designated program that meets the fast growing demands for supply chain and data analytics professionals. It equips students with both the domain knowledge of supply chain management and the skills and toolboxes in business analytics.

Admission Requirements

Applicants must meet the general graduate admission requirements of the Graduate School, described in the UMSL catalog. Students are considered for admission to the graduate program in Supply Chain Analytics only after they have formally applied for admission through the Graduate School.

Degree Requirements

Required Courses

SCMA 5300	Business Analytics	3
SCMA 5310	Supply Chain Strategies	3
SCMA 5320	Supply Chain and Operations Management	3
SCMA 6321	Strategic Sourcing	3
SCMA 6330	Business Logistics Systems	3
SCMA 6331	Supply Chain Modeling	3
SCMA 6345	Business Analytics and Data Mining	3
SCMA 6350	Management Science Methods	3

Elective Courses 6

Choose two of the following:

SCMA 5354	Simulation for Managerial Decision Making
SCMA 5381	Global Supply Chain Management
SCMA 5389	Supply Chain Management Practicum
SCMA 6347	LOM Project Management
SCMA 6395	Seminar in Logistics and Operations Management
INFSYS 6830	Data Programming for Business Intelligence
INFSYS 6860	Advanced Data Integration
INFSYS 6862	Artificial Intelligence Applications for Business and Cybersecurity
FINANCE 6503	Computer Applications in Finance
FINANCE 6523	Fixed Income Analysis
FINANCE 6524	Portfolio Analysis and Management
MKTG 5740	Marketing and Business Analytics

Total Hours 30

Learning Outcomes

Upon completion of the program, graduates will be able to:

- Understand and explain a comprehensive scope of supply chain functions, concepts, their connections and roles in business

- Grasp all Three-Pillar of Business Analytics: Descriptive, Predictive and Prescriptive methodologies
- Identify and define supply chain decision questions and problems with business acumen
- Build analytical models and apply analytical methods for real world supply chain decision-support and applications
- Interpret and present analysis results and business insights to management
- Obtain hands-on experience of using state-of -the-art decision-support software for real life supply chain applications