Supply Chain Analytics, MS

This degree is designed for students with an undergraduate degree in business, economics, computer science or engineering who would like to apply data science and analytics in supply chain management, or supply chain professionals working in purchasing, operations, logistics and transportation who want to enhance their data and analytical skills, or data scientists who want to advance to management/leadership roles. Students will develop solid domain knowledge in supply chain management and strong analytical skills with business acumen. Through the strong support of the Advisory Board, rich extracurricular activities and internship opportunities are available to enhance our student experience and success. This program was ranked #8 in "Best Master's in Supply Chain Management" by Intelligent.com in 2021.

Career Outlook

The rigorous and dynamic curriculum in the MS Supply Chain Analytics program prepares our graduates with the two-pillar of skill sets in supply chain management and business analytics, who meet the current and future demand for "citizen data scientists," as coined by Gartner Research, who bridge the gap between a pure data scientist and a supply chain domain expert. A Master of Science degree in Supply Chain Analytics opens the door to senior level positions and roles in one's career path. According to the 2020 ASCM Salary Survey, the median salary of one with a graduate degree in supply chain management is $95,750.

Future Career Options

- Director of Purchasing/Procurement
- Chief Procurement Officer
- Director of Operations
- Chief Operations Officer
- Director of Logistics
- Chief Supply Chain Officer
- Supply Chain Planning Director
- Director of Project Portfolio
- Chief Finance Officer
- Senior Business Analyst
- Senior Data Analyst
- Direct of Business Analytics

Skills developed through degree completion

- Explain end-to-end supply chain processes and functions
- Explain basic theories and principles in supply chain management
- Apply descriptive analytics to describe, visualize data and test hypothesis
- Build and apply predictive models to predict/ forecast demand and other business measures
- Build and apply prescriptive models to optimize data-driven decisions in supply chains
- Develop business acumen to form hypotheses and identify data-driven decision problems to address supply chain related issues
- Develop communication skills to effectively interpret analytical solutions
- Develop collaboration and team-working skills
- Apply supply chain knowledge and concepts and engage in real-world problem solving

2-YEAR ACADEMIC MAP

Successful alumni have gone on to fulfill many of the opportunities above. Additional possibilities are taken from the Bureau of Labor Statistics.
Contact an advisor to discuss additional future career options.

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Supply Chain Analytics, MS

Year 1

FALL SEMESTER *(6 credit hours)*

SCMA 5300: Business Analytics (3)
SCMA 5310: Supply Chain Strategy (3)

SPRING SEMESTER *(9 credit hours)*

SCMA 6321: Strategic Sourcing (3)
SCMA 6320: Supply Chain & Operations Management (3)
Approved Electives (3)

Year 2

FALL SEMESTER *(9 credit hours)*

SCMA 6330: Business Logistics Systems (3)
SCMA 6345: Business Analytics & Data Mining (3)
SCMA 6350: Prescriptive Analytics & Optimization (3)

SPRING SEMESTER *(6 credit hours)*

SCMA 6331: Supply Chain Modeling (3)
Approved Electives (3)

Degree completed!

2023-2024
2-YEAR ACADEMIC MAP

This is a sample academic map for the courses to take each academic semester/session. ***This map is not a substitute for academic advisement.*** Contact your advisor when making final selections.

– Summer and Intersession courses

Don't forget that summers and winter breaks are a way to fast-track your route to degree completion – and lighten your load during fall and spring!

– Apply for Graduation

Don't forget that students should apply for graduation one year prior to the intended graduation date, so apply prior to the deadline!

Ready to be an UMSL Triton? Apply today.

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888-GO-2-UMSL
314-516-5451
umsl.edu/gradschool/

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