Degree Requirements

The Master of Science in Supply Chain Management (MS SCM) explores the key issues associated with the design and management of industrial supply chains, including methods for improving supply chain operations by lowering costs, speeding delivery, and improving quality. The depth of our supply chain program uniquely prepares students to be the next generation business leaders with skills and competencies necessary to perform across functions within an organization. Students gain business management knowledge and analytical decision-making skills (especially for complex systems) along with real-life experiences through projects with area companies.

The MS SCM program is designed for students with or without previous educational background in supply chain management. Students must maintain a 3.0 grade point average in both core courses and in aggregate courses to qualify for the MS degree. Students can also obtain a dual MS SCM/MBA degree by successfully completing a total of 63 semester credit hours (if all prerequisites are met).

Prerequisites

Calculus is required as a graduate program prerequisite. Candidates that have not taken an equivalent course will need to complete OPRE 6303 with a grade of "B" or better to meet the calculus requirement.

Course Requirements

All students enrolling in the MS SCM program must complete the following Basic Business Core:

**Basic Business Core Courses:** 9 semester credit hours

- **OPRE 6301** Quantitative Introduction to Risk and Uncertainty in Business
- **OPRE 6302** Operations Management

And one of the following courses:

- **ACCT 6305** Accounting for Managers
- **FIN 6301** Financial Management

Supply Chain Management Core Courses: 9 semester credit hours
OPRE 6366  Global Supply Chain Management
OPRE 6370  Global Logistics and Transportation
OPRE 6371  Purchasing, Sourcing and Contract Management

Supply Chain Management Elective Courses: 15 or 18 semester credit hours

OPRE 6325  Healthcare Operations Management
OPRE 6332  Spreadsheet Modeling and Analytics
OPRE 6335  Risk and Decision Analysis
OPRE 6340  Flexible Manufacturing Strategies
OPRE 6341  Retail Operations
OPRE 6362  Project Management in Engineering and Operations
OPRE 6363  Inventory Control
OPRE 6364  Quality Control (Lean Six Sigma)
OPRE 6367  Capstone Projects in Supply Chain Management
OPRE 6368  Industrial Applications in Supply Chains
OPRE 6369  Supply Chain Software (SAP APO)
OPRE 6377  Demand and Revenue Management
OPRE 6378  Supply Chain Strategy
OPRE 6379  Product Lifecycle Management
OPRE 6387  Models of Energy Markets
OPRE 6388  Engineering Packaged Goods Distribution
OPRE 6389  Managing Energy: Risk, Investment, Technology (MERIT)
OPRE 6398  Prescriptive Analytics

Free Elective Course: 3 semester credit hours (optional)

Students may choose one of the supply chain technology based course listed below or any three semester credit hour graduate level course within JSOM as a free elective.

OPRE 6390  Enterprise Resource Planning (ERP)
OPRE 6391  Business Data Warehousing (with SAP)
OPRE 6393  Database Foundations
OPRE 6394  Technology and New Product Development
OPRE 6395  The Management of High Tech Products
OPRE 6396  Negotiation and Dispute Resolution
OPRE 6397  Cross-Culture Communication and Management
OPRE 6399  Business Intelligence Software and Techniques

1. Executive Education students may take FIN 6301 course as an elective with a prior approval of the program director.

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