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.