Degree Requirements

The Master of Science in Supply Chain Management (MS SCM) is an STEM (Science, Technology, Engineering and Mathematics) degree program that explores the key issues associated with the design and management of industrial supply chains, including methods for improving supply chain operations by lowering costs and improving quality. The depth of our supply chain program uniquely prepares students to be the next generation of 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 industry projects.

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 (GPA) 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 who 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

Business Core Courses: 9 semester credit hours

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

And choose one course from 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: 18 semester credit hours

- **OPRE 6V98** Supply Chain Management Internship (required elective)
- **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 6355** Deal Making Strategies
- **OPRE 6362** Project Management in Engineering and Operations
- **OPRE 6363** Inventory Control
- **OPRE 6364** Lean Six Sigma
- **OPRE 6367** Capstone Projects in Supply Chain Management
- **OPRE 6368** Industrial Applications in Supply Chains
- **OPRE 6369** Supply Chain Software
- **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
- **OPRE 6393** Database Foundations
- **OPRE 6399** Business Analytics with SAS

Free Elective (optional): As part of the 18 semester credit hours of elective courses, students may choose an SCM international trip or any three semester credit hour graduate level course offered...
within JSOM as a free elective course.

**Supply Chain Management Tracks**

The MS SCM degree program also offers opportunities for students to focus in a specific track to obtain an in-depth knowledge by taking four courses from the tracks listed below.

The **Analytics** track is recommended for students interested in managing and analyzing large-scale data and developing organizational strategies.

- **OPRE 6332** Spreadsheet Modeling and Analytics
- **OPRE 6367** Capstone Project in SCM
- **OPRE 6398** Prescriptive Analytics
- **OPRE 6V98** Internship in SCM

The **Retail** track is recommended for students interested in managing retail operations, understanding demand and pricing and customer relationships.

- **OPRE 6341** Retail Operations
- **OPRE 6355** Deal Making Strategies
- **OPRE 6367** Capstone Project in SCM
- **OPRE 6377** Demand and Revenue Management
- **OPRE 6V98** Internship in SCM

The **Risk** track is recommended for students interested in understanding uncertainty, decision making in risky environment and budgeting and scheduling projects.

- **OPRE 6335** Risk and Decision Analysis
- **OPRE 6362** Project Management in Engineering and Operations
- **OPRE 6367** Capstone Project in SCM
- **OPRE 6389** Managing Energy: Risk, Investment, Technology (MERIT)
- **OPRE 6V98** Internship in SCM

The **Strategy** track is recommended for students interested in business strategy, product development and quality.

- **OPRE 6340** Flexible Manufacturing Strategies
- **OPRE 6364** Lean Six Sigma
- **OPRE 6367** Capstone Project in SCM
- **OPRE 6378** Supply Chain Strategy
- **OPRE 6379** Product Lifecycle Management
**OPRE 6V98** Internship in SCM

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

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