Master of Science in Supply Chain Management

36 semester credit hours minimum

Faculty

Professors: Alain Bensoussan, Metin Cakanyildirim, Huseyin Cavusoglu, Milind Dawande, Ganesh Janakiraman, Elena Katok, Syam Menon, Shun-Chen Niu, Ozalp Ozer, Suresh P. Sethi, Kathryn E. Stecke, John J. Wiorkowski

Clinical Professors: Ching-Chung Kuo, Radha Mookerjee, Divakar Rajamani, Kannan Ramanathan

Associate Professors: Dorothée Honhon, Alp Muharremoglu

Clinical Associate Professors: Sonia Leach, David Parks, Avanti P. Sethi, Mark Thouin

Assistant Professors: Anyan Qi, Serdar Simsek, Shouqiang Wang, Shengqi Ye, Zhe (James) Zhang

Clinical Assistant Professors: Shawn Alborz, Athena Alimirzaei, Ravi Narayan

Senior Lecturers: Monica E. Brussolo, Eugene (Gene) Deluke, Carol Flannery, Luell (Lou) Thompson

Degree Requirements

The Master of Science in Supply Chain Management (MS SCM) is a minimum 36 semester credit hours 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 the 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.

To apply for this degree program, an undergraduate degree is required (all majors are considered). Students must maintain a 3.0 grade-point average (GPA) in both core courses and in aggregate courses to qualify for the MS degree.

Prerequisites

Students pursuing the Master of Science in Supply Chain Management degree program are required to complete one semester credit hour of OPRE 6102 Professional Development course or equivalent. In addition, knowledge of calculus is required and students who have not completed an undergraduate calculus course may satisfy the prerequisite by completing OPRE 6303 Quantitative Foundations in Business with a grade of "B" or better. Degree credit is not earned for program prerequisites, however, the grade achieved in prerequisites will count toward the student's grade-point average (GPA). All program prerequisites must be
satisfied within the first 12 semester credit hours of graduate study as a degree-seeking student.

**Course Requirements**

Core Courses: 18 semester credit hours

- **OPRE 6301** Statistics and Data Analysis
- **OPRE 6302** Operations Management
- **OPRE 6366** Global Supply Chain Management
- **OPRE 6370** Global Logistics and Transportation
- **OPRE 6371** Purchasing, Sourcing and Contract Management

And choose one course from the following courses:

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

Elective Courses: 18 semester credit hours

Select six courses from electives listed below. Optionally, as part of the 18 semester credit hours of elective courses, students may choose an international trip or any three semester credit hour graduate level course offered within JSOM as a free elective course.

- **OPRE 6V98** Supply Chain Management Internship (required elective)
- **OPRE 6304** Operations Analytics
- **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 6354** Quality Improvement in Healthcare: Six Sigma and Beyond
- **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

### Supply Chain Management Tracks

The MS SCM degree program 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 Projects in Supply Chain Management
- **OPRE 6398** Prescriptive Analytics
- **OPRE 6V98** Supply Chain Management Internship

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 Projects in Supply Chain Management
- **OPRE 6377** Demand and Revenue Management
- **OPRE 6V98** Supply Chain Management Internship

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 Projects in Supply Chain Management
- **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 Projects in Supply Chain Management
- **OPRE 6378** Supply Chain Strategy
- **OPRE 6379** Product Lifecycle Management
- **OPRE 6V98** Supply Chain Management Internship

1. Executive Education students may take FIN 6301 course as an elective with a prior approval of the program director.
2. OPRE 6367 Capstone Projects in Supply Chain Management or Lean Six Sigma Green Belt Certificate fulfills the internship requirements.
3. For Executive Education students only.

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