Naveen Jindal School of Management

Master of Science in Supply Chain Management

36 semester credit hours minimum

Faculty

Professors: Alain Bensoussan, Metín Çakanyıldırım, Milind Dawande, Ganesh Janakiraman, Elena Katok, Özalp Özer, Suresh P. Sethi, Kathryn E. Stecke, John J. Wiorkowski

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

Associate Professor: Dorothée Honhon

Clinical Associate Professors: Sonia Leach, David Parks, Avanti P. Sethi, Ramesh Subramoniam

Assistant Professors: Qi (George) Chen, Anyan Qi, Serdar Simsek, Shouqiang Wang, Shengqi Ye

Clinical Assistant Professors: Shawn Alborz, Athena Alimirzaei

Senior Lecturers: Monica E. Brussolo, Mohammad Naseri Taheri

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 MAS 6102 Professional Development course. 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 semester 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. As part of the 18 semester credit hours of elective courses, students may also substitute up to six semester credit hours master-level courses offered within JSOM, including a faculty led trip as electives in the degree plan.

- **OPRE 6V98** Supply Chain Management Internship (required elective)
- **OPRE 6304** Operations Analytics
- **OPRE 6305** Business Analytics with R
- **OPRE 6325** Healthcare Operations Management
- **OPRE 6332** Spreadsheet Modeling and Analytics
- **OPRE 6334** Advanced Business Analytics with SAS
- **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
- or **OPRE 6364** Lean Six Sigma
- **OPRE 6355** Deal Making Strategies
OPRE 6362  Project Management in Engineering and Operations

OPRE 6363  Inventory Control

OPRE 6367  Capstone Projects in Supply Chain Management

OPRE 6368  Industrial Applications in Supply Chains

OPRE 6369  Supply Chain Software
  or OPRE 6390  Enterprise Resource Planning

OPRE 6377  Demand and Revenue Management

OPRE 6378  Supply Chain Strategy

OPRE 6379  Product Lifecycle Management

OPRE 6382  Import and Export Trade Compliance

OPRE 6388  Engineering Packaged Goods Distribution

OPRE 6389  Managing Energy: Risk, Investment, Technology (MERIT)

OPRE 6390  Enterprise Resource Planning

OPRE 6393  Database Foundations

OPRE 6394  Technology and New Product Development

OPRE 6398  Prescriptive Analytics

OPRE 6399  Business Analytics with SAS

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.

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

OPRE 6304  Operations Analytics

OPRE 6332  Spreadsheet Modeling and Analytics

OPRE 6398  Prescriptive Analytics

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 6377  Demand and Revenue Management
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 6389** Managing Energy: Risk, Investment, Technology (MERIT)

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 6378** Supply Chain Strategy
- **OPRE 6379** Product Lifecycle Management

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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