

Supply Chain Management Certificate

The Supply Chain Management certificate provides graduate business students with a unique educational opportunity to integrate topics from operations management, information systems, marketing and strategic management related to complex supply chain management systems.

In general, a supply chain/logistics system can be viewed as a set of interconnected linkages required to transforming ideas into delivered products and/or services. Firms are increasingly using outsourcing as a means to gain a competitive edge. The expansion of global markets and increased opportunities to procure and sell products/services in these markets has led to an increased need for managers who develop global outsourcing and marketing strategies. For these and other reasons, companies are increasing their focus on efficiently operating supply chains.

This is an interdisciplinary program (operations, marketing, information systems, and management) which trains students to develop an integrated perspective in managing large national or multinational supply chains. Students are also exposed to one Enterprise Resource Planning System (SAP R/3) which facilitates integrated decision-making in the chain. On completion of the certificate, students usually are recruited by top consulting firms with ERP/supply chain practices or by the larger corporations (Ford CSX, etc.) which need experts to address problems in a large-scale supply chain. To earn the certificate, students must complete 16 credits taken from the following:

Required Courses (12 credits):

ISM 6222 - Business Telecom Strategy and Applications I (2 credits)

Survey of networking technologies used in WWW and e-commerce. TC/IP networks and related security, networking hardware, and Internet software standards.

Prereq: None

Offered Fall and Spring, Modules 1 & 3

ISM 6485 - Electronic Commerce and Logistics (2 credits)

Underlying technologies that herald innovations. How to capitalize on new electronic commerce and logistics in business.

Prereq: Must be taken in the final semester

Offered Fall and Spring, Module varies

MAN 6511 - Production Management Problems (2 credits)

Problems in the management of industrial enterprise; management principles and mathematical analysis applied to manufacturing; product development and production; materials and production control; employee relations.

Prereq: None

Offered Fall only, Module varies

MAN 6528 - Principles of Logistics/Transportation Systems (2 credits)

Logistics management in current business environment.

Prereq: QMB 6756

Offered Fall only, Module varies

MAN 6573 - Purchasing and Materials Management (2 credits)

Industrial/institutional purchasing cycle for operating supplies, raw materials, components and capital equipment within context of materials management organizational concepts. Basic principles, policies, and procedures involved in requirement determination; procurement decision process; purchasing function; and materials management concept, organization, and philosophy.

Prereq: None

Offered Spring only, Module varies

MAN 6581 - Project Management (2 credits)

Role of manager in organization and ways of structuring project organizations; fundamentals of scheduling; time/cost tradeoffs, budgeting, and cost estimation; and monitoring.

Prereq: None

Offered Fall and Spring, Module varies

Elective Courses (4 credits – choose any two courses):

ISM 6128 - Advanced Business Systems Design and Development I (2 credits)

Object-oriented analysis and model specification for business software systems. Articulation of key requirements (data, processes, physical components, deployment) using logical modeling methodologies.

Prereq: None

Offered Fall and Spring, Modules 1 & 3

ISM 6215 - Business Database Systems I (2 credits)

Fundamentals of data storage and retrieval models for business applications. Data modeling and database design principles. Theoretical foundations and exercises presented for relational data model and SQL.

Prereq: C grade or better in ISM 6129

Offered Fall and Spring, Modules 1 & 3

ISM 6223 - Business Telecom Strategy and Applications II (2 credits)

Both introduction and traditional telephony and discussion of issues companies face upon consolidation of voice and data networks. Technological developments, product announcements, and market activity, with ultimate focus on strategy of voice/data integration.

Prereq: C grade in ISM 6222

Offered Fall and Spring, Modules 2 & 4

MAN 6447 - The Art and Science of Negotiation (2 credits)

Theory and processes of negotiation as practiced in a variety of settings. Understanding behavior of individuals, groups, and organizations in competitive situations.

Prereq: None

Offered Fall and Spring, module varies

Total Credits: 16