

# SUPPLY CHAIN MANAGEMENT

## Programs Bachelor

- Supply Chain Management / Bachelor of Science (<https://catalog.lewisu.edu/undergraduate/business/supply-chain-management/supply-chain-management-bachelor-science/>)

## Minor

- Supply Chain Management for Business Majors / Minor (<https://catalog.lewisu.edu/undergraduate/business/supply-chain-management/supply-chain-management-minor/>)
- Supply Chain Management for Non-Business Majors/Minor (<https://catalog.lewisu.edu/undergraduate/business/supply-chain-management/supply-chain-management-non-business-minor/>)

## Courses

### SCMT 25600 - Advanced Supply Chain Management Concepts (3)

This course will provide lessons in advanced topics relevant to supply chain management. The student will learn to evaluate the process constraints and choices within global logistics to establish a plan linked to overall strategy. In addition, the student will understand natural dynamics within the supply chain to optimize performance and profitability, and the student will acquire basic concepts to align distribution and transportation options with supply chain strategy.

### SCMT 25800 - Environmental and Ethical Considerations in the Supply Chain (3)

This course will cover the importance of supply chain sustainability, as well as the necessary ethical practices that must be exhibited in the industry. The concepts of energy consumption, water consumption, greenhouse gas emissions, and waste generation will be thoroughly covered along with the benefits and challenges of "going green" in the industry. Ethical principles affecting "going green" as well as company relationships, honesty and respect are discussed.

### SCMT 25900 - Managing the Global Supply Chain (3)

This course will provide students with the ability to understand and address both long-term opportunities and uncertainties when designing and managing global supply chains. The opportunities and risks associated with globalization along with strategies to deal with both elements will also be thoroughly covered.

### SCMT 26000 - Warehouse Design and Operations (3)

This course covers the critical role that warehousing plays in satisfying the customer requirements for the timely delivery of goods. Students will learn the importance of the warehouse when the production and consumption of goods do not coincide.

### SCMT 34500 - Third-Party Logistics Providers (3)

This course will cover the implications of outsourcing logistics services to fourth-party logistics providers (4PL). Students will explore both the benefits and drawbacks of using these services and will learn when it may be appropriate to actually use one of these entities.

### SCMT 34600 - Selecting and Evaluating Transportation Suppliers (3)

This course will cover outsourcing and in-house applications to the supply chain. Students will learn the benefits and drawbacks of each approach and will explore when each method may be best utilized to accomplish the objectives of the company.

### SCMT 34700 - Demand Planning and Forecasting (3)

This course will cover the demand planning and decision-making process used to balance the supply and demand for products which consumers purchase. Topics will include the sales and operations planning (S&OP) process and forecasting future orders over specific planning periods using both qualitative and quantitative approaches.

Prerequisite: SCMT 26000

### SCMT 34800 - Inventory Management (3)

This course is designed to provide the student with foundational knowledge pertaining to inventory and its management. This course will explain to students how inventory management is key in the supply chain as the role of inventory is often the driver for future business activities such as warehousing, transportation, and materials handling.

### SCMT 34900 - Order Fulfillment and Customer Relationships (3)

This course will cover the various activities associated with the order cycle and the method to successfully obtain, process, and ship an order. Elements of customer service will also be covered in depth along with service failure and recovery.

### SCMT 35300 - Procurement and Supply Management (3)

This course will cover procurement to include the purchase of materials, work-in-process, finished goods, and services by the procurement function of an organization. The importance of procurement in providing a sustainable competitive advantage through lower costs, higher quality, and better service for both internal and external customers will also be covered.

### SCMT 35400 - Logistics Management (3)

The course introduces students to logistics management, a critical link to successful supply chains. It is a key facilitator of global economic development, quality of life improvement, and enterprise success. The primary focus is to provide insights into how effective transportation processes ensure the rapid flow of essential goods across complex global supply chains and how efficient transportation operations keep delivery costs in check to ensure that products are affordable in multiple markets.

### SCMT 35500 - Motor Freight Administration (3)

The motor carrier industry played an important role in the development of the U.S. economy during the 20th century. Students will study the structure of the market, the nature of competition within this transportation mode, the types of terminals utilized, and carrier rate negotiations. Students will study management functions in terminal operations as well as staff functions such as fleet management.

### SCMT 35600 - Railroad Administration (3)

Railroads employ hundreds of thousands of people, accounting for over 40% of all ton-miles moved by all transport modes in the nation. The Chicago region has long been a major rail center for the country. This course will examine the issues facing this important industry, which continues to serve as a key economic driver for the region.

### SCMT 35700 - Introduction to Supply Chain Management (3)

This course will provide an introduction to physical distribution/logistics as practiced in today's business environment. A student will acquire the basic concepts of physical distribution essential to the analysis of related business problems. In addition, the student will gain an appreciation of the role of logistics in the enterprise and its relationship to other value added/functional areas.

**SCMT 35800 - Ocean Shipping (3)**

This course provides an introduction to principles of international ocean transportation as practiced in today's business environment. A student will acquire the basic concepts applicable to the analysis of related business problems. Students learn ocean shipping operations (shipping options, vessel types and capabilities); ocean shipping business (key business drivers supporting shipping companies and the industry); and port operations (their essential role in ocean transportation).

**SCMT 35900 - Managing the Global Supply Chain (3)**

This course will provide students with the ability to understand and address both long-term opportunities and uncertainties when designing and managing global supply chains. The opportunities and risks associated with globalization along with strategies to deal with both elements will also be thoroughly covered.

**SCMT 40000 - Inventory Management with Supply Chain Information Systems (3)**

This course is designed to provide the student with the foundational knowledge pertaining to inventory and its management, including the acquisition, distribution, and interpretation of information as the primary drivers for decision making in the supply chain. Students will explore how inventory management is a key component throughout the supply chain organization, and understand the importance and role of inventory serving as a driver for all business activities. Additional topics will address the necessity for information systems within supply chain models of being accurate, timely, shared with stakeholders, and how they will learn to apply this knowledge to drive decisions that impacts future business activities such as warehousing, transportation, and materials handling.

**SCMT 43500 - Supply Chain Information Systems (3)**

This course will cover the acquisition, distribution, and interpretation of information as the primary drivers for decision making in the supply chain. Students will understand the importance of this information being accurate, timely, shared with stakeholders, and they will learn to apply this knowledge to drive decisions.

**SCMT 45000 - Profitability and Cost Management (3)**

This course provides real-world examples of how cost management systems can drive organizational profitability. Students will also learn how to utilize a five-step strategic decision-making framework and develop insights into how organizations can achieve a competitive edge through effective cost management.

**SCMT 45400 - Issues and Trends in Supply Chain Management (3)**

This course presents an analysis of selected contemporary issues, problems, and trends facing various segments of the supply chain management industry (mining, manufacturing, transportation, distribution, and retailing). Students apply previously learned principles to practical problems in the supply chain management industry.

**SCMT 45700 - Multimodal Operations (3)**

Multimodal transportation involves the use of two or more modes of transportation in moving a shipment from origin to destination, primarily through the use of a container. This multimodal service combines the advantages of each mode used. The growth of multimodal transportation has been aided by deregulation in the U.S. and by growth in global business. Intermodal operations are the junctions where containers are transferred from one mode to another. Students will study the administrative and managerial aspects of these intermodal facilities.

**SCMT 48000 - Supply Chain Management Internship (3)**

This internship is designed to provide students with the opportunity for supervised, practical experience within an administrative setting of participating businesses, industries and governmental organizations within the field of Supply Chain Management. Students may be eligible to complete an internship with their current employer, with prior approval from the course instructor. The internship must be arranged during the semester prior to enrollment, the student must complete the Internship Proposal Form by the appropriate deadline, and the proposal must be accepted by the Program Director.

Program Restrictions: Must be enrolled in the following Program: Supply Chain Management.

Attributes: Experiential Learning Gen Ed