

SCM 7397 Selected Topics in SCM: Logistics Management Spring 2019

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Class Time: Thursday 6:00-9:00pm

Office Hours: Monday & Wednesday, 3:00-5:00

Course prerequisites: completion of SCM 6A01 or SCM 6301.

Course Description

Supply chain management is the integrated management of the flows of materials, products, services and cash from the suppliers to the final customer and back again, with *logistics management* serving a critical role in managing these flows. The rapid enhancements in technology and the global expansion of business has increased the complexity of logistics management and an increasing demand for business professionals trained in the logistics management discipline. Core topics include: logistics strategy, forecasting and inventory management, international transportation management, distribution network design, import/export operations, logistics information systems, customer service and emerging trends in logistics.

Course Objectives

This course introduces the students to fundamental business logistics concepts, the relationship among logistics and other business functions, and the principle tools and analytical models used to support logistics management decision making. This course is fundamental for all students interested in procurement, operations management, distribution, transportation and marketing career paths.

Course Materials

- **Textbook:** Information will be drawn from leading Logistics Management textbooks. No book is required for the course.
- **Supplemental Readings:** The course will utilize several readings from leading business journals, such as the Harvard Business Review, Sloan Management Review, Business Horizons and others.
- **Business Cases:** Business cases examining basic logistics concepts and emerging trends will be analyzed during the course.
- **Instructor lecture notes:** As posted on blackboard.

Course structure and grading:

- Exam 1 : 25%
- Exam 2 : 25%
- Case Analysis/presentation 20%
- Analytics Assignments: 15%
- In Class Contribution 15%

Logistics Analytics Topics (Examples)

- Forecasting Consumer Product Demand in Retailing Distribution Systems
- Transportation Routing and Scheduling to Support Offshore Energy Production
- Facility Network Optimization

Selected Topics in SCM: Logistics Management **Example Course Schedule**

WEEK	TOPIC
Week 1	Course Introduction: Logistics & Supply Chain
Week 2	Global Dimensions of Logistics Management
Week 3	Order Management and Customer Service
Week 4	Transport Fundamentals and Pricing
Week 5	Global Transportation Planning/Execution
Week 6	Transport Analytics: Vehicle Routing and Scheduling
Week 7	Forecasting: Time Series Models and Error Measurement
Week 8	Forecasting trend, seasonality and promotional events
Week 9	Inventory Management – Order Quantity and Safety Stock
Week 10	Managing Distribution Network Inventory
Week 11	Managing Order Fulfillment and E-Commerce Operations
Week 12	Distribution & Omni Channel Network Design
Week 13	Network Design Analytics
Week 14	Logistics Technology Management
Week 15	Strategic Challenges for Logistics Management
