A. INTRODUCTION TO SUPPLY CHAIN MANAGEMENT IN THE EU
   1. What is Supply Chain Management?
   2. The Development Chain
   3. Global Optimization
   4. Managing Uncertainty and Risk in the EU
   5. The Evolution of Supply Chain Management
   6. The Complexity of the EU
   7. Key Issues in Supply Chain Management
      Case: Meditech Surgical

B. INVENTORY MANAGEMENT AND RISK POOLING
Case: Steel Works, Inc.
1. Introduction
2. Single Stage Inventory Control
   i. The Economic Lot Size Model
   ii. The Effect of Demand Uncertainty
   iii. Single Period Model
   iv. Initial Inventory
   v. Multiple Order Opportunities
   vi. Continuous Review Policy
   vii. Variable Lead Times
   viii. Periodic Review Policy
   ix. Service Level Optimization
3. Risk Pooling
   Case: Risk Pooling
4. Centralized Versus Decentralized Systems
5. Managing Inventory in the Supply Chain
6. Practical Issues

**Semester:**

Global logistics and supply chain management are the mechanisms and systems by which the right products reach the right customers at the right time and at a cost that makes them competitive. In a global economy the successful management of logistics and supply chain management is critical to the success of the firm and its supply chain partners. These are likewise critical to a nation's economy. The course covers the movement and storage management activities for raw materials, work-in-process, and finished goods inventory. **This course should satisfy the requirement of an advanced International business class or an advanced elective**
Topics:

1. Logistics and Supply Chain Context
   a. Introduction
   b. Globalization and International Trade
   c. Supply Chain Strategies
2. Logistics and Supply Chain Operations
   a. Logistics Service Providers
   b. Procurement and Outsourcing
   c. Inventory Management
   d. Warehousing and Materials Management
   e. Transportation in Supply Chains
   f. Information Flows
   g. Logistics and Financial Management
   h. Measuring Logistics Performance
3. Case: Deutsche Post/DHL
4. Case: Supplier Evaluation at EADS
5. Supply Chain Designs
   a. Vulnerability, Risk, Robustness and Resilience
   b. Integration and Collaboration
   c. Sustainable Logistics and Supply Chain Systems
   d. New Supply Chain Designs
6. Case: Dubai Logistics City
7. Case: SCM: The Past is Prologue