

**Boston University, College of Engineering
ENG ME 420: Supply Chain Engineering**

Course Information: Spring 2011

Meeting Details:

Tuesday and Thursday noon - 2:00 pm
GCB 208

Instructor:

Professor Perkins
Office: 15 St. Mary's Street, Room 146
Phone: (617) 353-4991
Email: perkins@bu.edu

Course Website:

<http://people.bu.edu/perkins/ME420>

Office Hours:

Tuesday/Thursday 2:00-3:30 pm (email me to confirm) and by appointment

Textbook:

David Simchi-Levi et al., **Designing and Managing the Supply Chain** (3rd ed.)
McGraw-Hill, 2008

Homework Assignments:

Homework assignments will be 42% of the course grade. Assigned (approximately) weekly.

Exams:

Midterm worth 18% of course grade. Final worth 30% of course grade. Midterm date to be determined. Final date (tentatively): Friday, May 13, 2011, 9:00 - 11:00 am

Attendance and Participation:

Attendance/Participation in class will be 10% of course grade.

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Course Topics: Spring 2011

- Introduction
- Inventory Management and Risk Pooling
- Network Planning
- Supply Contracts
- Value of Information
- Distribution Strategies
- Strategic Alliances
- Procurement and Outsourcing Strategies
- Global Logistics and Risk Management
- Coordinated Product and Supply Chain Design
- Customer Value
- Smart Pricing
- Information Technology and Business Processes

Tools for Supply Chain Engineering

1. Product Visioning
2. Product and Process Modularity
3. Cellular Organization
4. Value Stream Mapping
5. RFID Chips and GPS
6. Inventory Optimization
7. Global and Domestic Outsourcing
8. Continuous Costing