

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

**Course Information: Spring 2012**

**Meeting Details:**

Tuesday and Thursday noon - 2:00 pm  
GCB 204

**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 10:30-11:30 am (email me to confirm) and by appointment

**Textbook:**

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

**Homework Assignments:**

Homework assignments will be 36% of the course grade. Assigned (approximately) every fortnight.

**Exams:**

Midterm worth 24% of course grade. Final worth 30% of course grade. Midterm date to be determined. Final date: Thursday, May 10, 2012, 9:00 - 11:00

**Attendance and Participation:**

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

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**Course Topics: Spring 2012**

- 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