

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

Course Information: Fall 2018

Meeting Details:

Monday and Wednesday 2:30 pm - 4:15 pm
EPC 203

Instructor:

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

Office Hours (email me to confirm):

Monday/Wednesday 1:00 pm - 2:00 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 36% of the course grade. Assigned (approximately) every fortnight.

Exams:

Midterm worth 24% of course grade. Midterm date: TBD
Final worth 30% of course grade.
Final date (tentative): Monday, December 17, 2018: 3:00 pm – 5:00 pm

Attendance and Participation:

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

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Course Topics: Fall 2018

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

Tools for Supply Chain Engineering

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