

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

**Course Information: Fall 2019**

**Meeting Details:**

Monday and Wednesday 2:30 pm - 4:15 pm  
EPC 206

**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  
Tuesday 10:30 am - 11:30 am

**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. Midterm date: TBD  
Final worth 30% of course grade  
Final date: Monday, December 16, 2019: 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 2019**

- 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**

- Value Stream Mapping
- RFID Chips and GPS
- Inventory Optimization
- Cellular Organization
- Global and Domestic Outsourcing
- Continuous Costing
- Product Visioning
- Product and Process Modularity