

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

**Course Information: Fall 2023**

**Meeting Details:**

Monday and Wednesday 4:30 pm - 6:15 pm  
EPC 205

**Instructor:**

Professor Perkins  
Office: 15 St. Mary's Street, Room 138  
Phone: (617) 353-4991  
Email: perkins@bu.edu

**Course Website:**

Blackboard Learn

**Office Hours:**

Wednesday 3:00 pm - 4:00 pm (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 30% of the course grade. Assigned (approximately) every fortnight.

**Exams:**

Midterm worth 25% of course grade. Midterm date: TBD  
Final worth 30% of course grade. Final date: TBD

**Attendance and Participation:**

Attendance/Participation in class will be 15% of course grade.

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**Course Topics: Fall 2023**

- 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