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

Course Information: Fall 2021

Meeting Details:

Monday and Wednesday 4:30 pm - 6:15 pm
PHO 203, 8 St. Mary's Street

Instructor:

Professor Perkins
Office: 15 St. Mary's Street, Room 146
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^{rd} 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: TBD

Attendance and Participation:

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

COVID-19 & BU Community Health Expectations:

Masks are required and face coverings must be worn over the mouth and nose at all times when in indoor public spaces on campus, including classrooms. Students should be prepared to show proof they are compliant with health attestations and testing in order to attend class. All students are expected to follow all university guidelines with respect to daily symptom checks, testing, social distancing, and mask wearing when required. For a detailed description of official BU policies regarding COVID, please visit: http://www.bu.edu/dos/policies/lifebook/covid-19-policies-for-students/

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Course Topics: Fall 2021

- 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