Meeting Details:
Tuesday and Thursday 4:00 - 6:00 pm
PHO 210, Photonics Building, 8 St. Mary’s Street and remote sites

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:
Tuesday/Thursday 2:00-3:00 pm (email me to confirm) and by appointment

Textbook:

Problem Sets:
Problem sets will be 30% of course grade. Assigned approximately weekly.

Exams:
Midterm worth 25% of course grade. Final worth 35% of course grade. Midterm date
to be determined. Final date (tentative): Tuesday, December 20, 2016, 3:00 pm - 5:00 pm

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

Reference Texts:
Course Topics: Fall 2016

- Deterministic and stochastic inventory models: Economic Order Quantity (EOQ), Economic Lot-Sizing Problem (ELSP), Dynamic lot-size models, (s,Q), (s,S), and other stochastic models
- Demand forecasting: average, moving average, exponential smoothing, other methods
- Aggregate Production Planning (PP) and Master Production Scheduling (MPS): linear programming models
- Material Requirements Planning (MRP) and production control methods: MRP and MRP-II, Kanban, and Just-in-Time (JIT)
- Supply chain management: Enterprise Resource Planning (ERP), inventory balancing
- Analysis of throughput, production lead time, and Work-in-Process (WIP): Kingman’s equation, CONWIP, mean value analysis
- Group Technology (GT) for capacity planning and plant layout
- Scheduling: classical/static scheduling theory (single and multiple machines, flow shops, and job shops); neoclassical scheduling theory (scheduling of human resources); project scheduling (PERT/CPM)