Boston University, College of Engineering  
ENG ME 266: Manufacturing Operations Management  

Course Information: Fall 2008  

Meeting Details  
Lecture: CAS 426, Thursday, 2:00-4:00  
Lab: Mfg CAE Lab (EMA 216), Thursday 4:00 – 5:00  

Instructor  
Professor Hauser  
Office: 730 Commonwealth, Room 219  
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Graduate Teaching Fellow  
David Willoughby  
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Course Website  
Lab folder  
http://CourseInfo.bu.edu  
\ad\eng\courses\lek\lek266  

Textbook  
Steven Nahmias, Production and Operations Analysis (5th Edition), McGraw-Hill, 2005  

Problem Sets (Individual effort)  
‘Textbook problem sets’ will be 50% of course grade. There will be 6 problem sets.  

Case-based problem sets and lab (Collaborative effort)  
Case-based problem sets will be 30% of course grade.  

Attendance and Participation (Mutually supportive effort)  
Attendance / Active participation in class will be 20% of course grade.  

Note on collaboration  
Homework that you turn in as representing your own work must be your own work. You may discuss the content of a given problem and solution approached with classmates, but the work you hand in must be your own. You are expected to formulate, analyze, and write all solutions to homework problems by yourself. Copying the solutions of another student or from other sources is cheating and will not be tolerated. If you have any doubt about the legitimacy of any collaboration or use of external sources, ask me first. I may just say yes. If you proceed on your own without asking and get caught, expect potentially serious adverse consequences.  

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1 Wording adopted from Professor Jim Perkins, adopted from Professor Solomon Eisenberg.
Class 1 (Sep 04): Introduction
Class 2 (Sept 11): Manufacturing Strategy
Class 3 (Sept 18): Forecasting
Class 4 (Sept 25): DFX (Design for ‘X’)
Class 5 (Oct 02): Supply Chain Design and Mgmt
Class 6 (Oct 09): Resource Planning and Project Scheduling
Class 7 (Oct 16): Lean Manufacturing
Class 8 (Oct 23): Speaker #1
Class 9 (Oct 30): Plant tour #1
Class 10 (Nov 06): Speaker #2
Class 11 (Nov 13): Plant tour #2
Class 12 (Nov 20): Additional depth topics
Class 13 (Dec 04): Case Presentations
Class 14 (Dec 11): Review, Wrapup, & Debriefing

Catalog Description:
Introduction to managerial decision-making from product concept to finished good. Topics include manufacturing strategy, forecasting, DFX, resource planning, project scheduling, and supply chain design and management. Emphasis placed on understanding topics as interdependent components of a lean manufacturing system. Underlying management science theory is supplemented by plant tours, lectures by industrial practitioners, and a semester project. 2 cr, either semester.

Course Goals:
1. To introduce students to issues faced by operations managers.
2. To teach students how to use elementary models and methods to facilitate managerial decision-making for complex manufacturing systems.
3. To provide students with exposure to, and an understanding of, current industrial practice in the areas of management science and operations research.

Course Outcomes:
As outcomes of completing this course, students will:
  i. Develop a knowledge of managerial decision-making from product concept to finished good:
  ii. Gain an understanding of the interdependent components of a lean manufacturing system.
  iii. Learn how to use elementary models and methods to facilitate managerial decision-making for complex manufacturing systems.
  iv. Obtain exposure to, and an understanding of, current industrial practice in the areas of management science and operations management.

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