Supply Chain Modeling: Logistics

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Bachelor's Level Skills

- *Familiar with jargon, basic concepts, and practices*
- *Able to communicate and influence*
- *Work in teams*
- *Adapt to change and lifelong learning*

Extract of the address by Fred W. Garry, Vice-President of Corporate Engineering and Manufacturing, General Electric Company, to the Engineering Deans Institute Meeting (March 27, 1985).

Characteristics of Bachelor's Job Applicants

- *Think and communicate clearly*
- *Respect others*
- *Working in a team*
- *Can work in a diverse and changing environment*

Executive lecture at Georgia Tech, 2001, by Euan Baird, chairman, president and chief executive of Schlumberger Ltd. Schlumberger is an international technical service company providing services and products to global commodity businesses, primarily in the oil and gas industry. At the end of 2000, the company had 60,000 employees from 140 countries.

Course Educational Objectives

- *Basic understanding of terminology and methodologies*
- *Project work in teams*
- *Professional presentation, reporting, and influencing skills*
- *Acceptance and adaptation to change*
- *Independent learning skills*
- *Use of computational tools*

Course Characteristics

- Engineering design of logistics systems
- Class discussion, homework, presentations, and projects in teams
- Closed book, closed notes exams
- Homework grading 50 % on content, 50 % on clarity of expression
- Midterm (25%), Lab (40%), Final (30%), Class participation (5%)
- Use of software tools

Homework

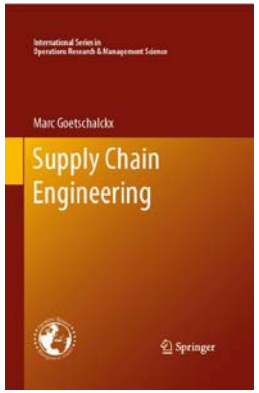
- Team work (5 members)
- Professional and on-time (3:00 PM)
- True-false questions (~15 per set = 1 question)
- Modeling and numerical questions
- Often one focused and one open-ended homework question by topic
- ~15 questions per semester

Homework Continued

- Solutions per question presented in class by volunteering teams
  - 1 presentation per team per semester
- Solution presentation submitted by e-mail then posted
- Sometimes support files submitted via T-Square
- 35% of points on reports and 5% on presentation

Supply Chain Engineering

Aug-2011



Course Materials

- Text: Supply Chain Engineering, Goetschalckx, Aug-2011
  - Barnes and Noble bookstore, Amazon,…
  - Bring textbook (paper/electronic) to class
  - Most recent errata on T-Square
- Additional Course materials
  - T-Square Course Section

Cumulative Grade Expectations

- **C** repeat solutions as shown in class
- **B** creatively model and solve SCE problems by combining and extending solutions shown in class
- **A** synthesizing SCE problems and creating innovative solution procedures

I Need Your Help

- Additional figures and pictures
- Additional (updated) statistics
- Additional web sites or references
- Electronic format
- Non-copyrighted or permission
- Extra credit!
- Logistics topic discussion at start of each class

How to Contact Me

- Email: marc.goetschalckx@isye.gatech.edu
- Phone: 404-894-2317
- Weekly office hours, ISyE Rm. 325, Tuesday 4:45 – 6:00 PM, Thursday same time by appointment
- Otherwise request an appointment by email