Quantitative Methods in Decision Making (QUA 553):

Text Book:

Software:
POM-QM v 3 for Windows will be used in H.W. and Case Analysis.

Grades:
- Mid-Term Exam: 30% (TBA)
- Case Analysis & Presentation: 20%
- H.W. & Participation: 10%
- Final Exam: 40% (TBA)
- Total: 100%

Course Outlines:
- Introduction to Quantitative Methods (OR & Statistics): Outside reading
  - Ch1: Introduction to Management Science
  - Ch2: Linear Programming: Model Formulation and Graphical Solution
  - Ch3: Linear Programming: Computer Solution and Sensitivity Analysis
  - Ch4: Linear Programming - Modeling Examples
  - Ch5: Integer Programming
  - Ch6: Network Models: Transportation & Assignment Problems only
  - Ch8: Project Scheduling (CPM, PERT)
  - Ch12: Decision Analysis
  - Ch13: Queuing Theory (if time permits)

Case Analysis:
- Class will be divided into groups (2-3 students Each).
- Every group has to submit an analysis of the case written professionally and a Final Report. (Assume You Are Presenting to your General Manager)
- Every Student has to present part of the case in a professional manner.

Homework:
H.W. will be assigned before the beginning of each Chapter and will be collected on the next meeting.

Mid Term and Final Exam: Time will be arranged by agreement.