MME 527 Syllabus 2017

Linear Models II

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Topics:

Linear Programming and Optimization
  geometrical view
  formulation
  The Simplex Algorithm
  Duality
  Sensitivity Analysis

Combinatoric Graphs
  basics
  matrix model; powers; eigenvectors
  application: Google searches

Project Management
  PERT/CPM

Image Processing
  Computer Graphics
  homogeneous coordinates

Projects
  Diet optimization - late January
  Bionomial Graphs
  Google Searches
  Graphics & images

Grade
  Projects  50%
  Homework  25%
  1 Exam    25%

Software Used  (as needed)
  Maple
  Matlab
Excel
web based applets
Remote Desktop  (WPI computer account needed)