${\bf Math~4580~Linear~Programming}$

Math 4580 is not taught on a regular basis and is currently inactive.

Linear Programming

Department: MATH
Course Number: 4580
Hours - Lecture: 3
Hours - Lab: 0
Hours - Recitation: 0
Hours - Total Credit: 3

Typical Scheduling: Every odd spring

Description:

A study of the linear programming problem, including the simplex method, duality, and sensitivity analysis with applications to matrix programming and networks

Prerequisites:

Math 1502 or Math 1512 or (Math 15X2 + Math 1522)

Course Text:

At the level of Linear Programming, V. Chvatal

Topic Outline:

Simplex algorithm

Duality theorem

Revised simplex method

Cutting stock problem. This is an excellent application of the revised simplex algorithm.

General duality scheme and duality theorem

Approximation of data

Games

Network simplex method

Applications of network simplex

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