COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

IEOR 162 - LINEAR PROGRAMMING AND NETWORK FLOWS (3 UNITS)

(Taken from the UC Berkeley Course Guide (http://guide.berkeley.edu))

COURSE OVERVIEW

SUMMARY

This course addresses modeling and algorithms for optimization of linear constrained optimization problems. The simplex method; theorems of duality; complementary slackness. Applications in production planning and resource allocation. Graph and network problems as linear programs with integer solutions. Algorithms for selected network flow problems. Transportation and logistics problems. Dynamic programming and its role in applications to shortest paths, project management and equipment replacement.

PREREQUISITES

Mathematics 53 and 54

WORKLOAD

TIME COMMITMENT

2 hours of lecture and 1 hour of discussion per week.

COLLEGE OF CHEMISTRY PEER SERVICES

Made by Angela Lee, c/o 2019

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