

MAT 3210 Linear Programming 2006/2007, 1st term

Lecturer: Dr. Juncheng Wei, LSB216, Tel. 26097967

TA:

- Leung Fung Bun Jessica
- Wang Yuquan

Objectives:

Simplex method (theory and algorithm), M-method, Two phase method, Duality, Dual simplex method, Post-sensitivity analysis, Transportation Problems

Text Book:

1. Main text book: Lecture Notes (Please make copies from the Library or download from my website: www.math.cuhk.edu.hk/~wei)
2. Main reference book: Hamdy A. Taha, Operations Research, An Introduction, (7th Edition), Prentice Hall (You can buy this book at the University Bookstore)

Prerequisites:

- Basic theory in Linear Algebra
- A little bit of Calculus: definition of continuous functions, closedness, minimum, maximum, etc.

Computer Software:

There is a computer software (TORA). Your tutor will show you how to use it in the computer lab of mathematics department.

Office Hours:

Monday-Friday: 10:00am to 12:00pm

Language: I will use English in class. You can speak to me in Cantonese or English or Putonghua.

Syllabus and Teaching Scheme:

We will follow closely with the lecture notes.

Assignments:

There will be 8 to 10 assignments. (I will post them on my web page: www.math.cuhk.edu.hk/wei/.) I *STRONGLY* suggest you do **ALL** of them. There will be 3 quizzes. Midterm: **OCT XX**. One final examination is scheduled.

Assessment Scheme:

Final Examination	1	50%
Midterm Examination	1	35 %
Quizzes	3	15 %
Total		100 %

Final Remark: Any question? Please send me an email or drop by my office LSB 216.