

# MAU0061 : Linear Programming

## Fall 2019

### Contact Information

Instructor: Jein-Shan Chen  
Classroom: C006  
Time: Thursdays, 13:20 - 16:20 pm  
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### Office Hours

You are welcomed to drop by my office whenever I am in or please feel free to make an appointment with me.

### Textbook

Most class materials are from “An Introduction to Linear Programming and Game Theory”, by P. R. Thie and G. E. Keough, 3rd edition, John Wiley & Sons, 2008. Nonetheless, no textbook is required and you are expected to take class notes on your own.

### Homework

As you are probably aware, most learning in a math course takes place when you do your homework. I will assign weekly or biweekly homework.

### Exams

There will have only one final exam which will be a presentation in English. Each enrolled student needs to do final presentation in English

around 10-15 minutes. The topic (anything related to optimization) is up to presenter's choice.

## Topics

- Mathematical Models
- The Linear Programming Model
- The Simplex Method
- Duality Theory
- Sensitivity Analysis
- Integer Programming

## Grades

Your final grade for this course will be determined as follows:

Attendance	30 %
Homework	30 %
Final	40 %

Sometimes you will be asked to attend conferences or workshops related to this course, and attendance of such cases is also counted.