

*Mathematical Economics*  
*Economics 3613*

COURSE OUTLINE,

Math\_Ec\_OUTI\_F\_2018, 9/4/2018 2:04 PM

Fall 2018

Professor: Hassouna Moussa

Office Location: BAC 347  
Office Telephone: 902 585 1511  
Email Address: moussa@acadiau.ca  
Office Hours: Tuesday 11:00 am - 12:30 Pm

Recommended Textbooks:

- Lecture notes
- Chiang, Fundamental Methods of Mathematical Economics,

Introduction

Half of a solution to an economic problem is a precise statement of the problem. Mathematical Economics helps economists state their problems in a precise and coherent way. It also helps economists to build models of various sectors of an economy and use them to obtain solutions to economic and policy issues. The models can also be used to simulate the behavior of the economy or a sector thereof.

Please note that this course outline contains three sections. The first section contains the course outline. The second section contains the dates for exams, and the weight distribution used in the marking system. Section 3 contains the due dates for assignments.

Section 1: Course Outline

Weeks	Topic	Moussa Chapter	Chiang Chapter
1	Introduction, linear economic models	1, 2	3,
2	Determinants and solutions of linear models	2,3	4
3	Simple models of equilibrium analysis Leontief Input output	4	5
4-	Comparative Static Analysis and derivatives	5	6
5	Comparative Static Analysis	5	7, 8
6 and 7	Optimization of objective Functions of one Variable	6	9

8 and 9	Optimization of functions of several variables	7	11
10	Exponential Growth Analysis	8	10
11	Remembrance Day and Fall Study Week		
12	Constrained Optimization	9	12
13	Comparative statics of Optimization Problems	10	
14	Comparative statics of Optimization Problems	10	

### Section 2: Exam Dates and Grade Weight Distribution

	Date	Weight
Midterm Exam 1	October 11, 2018	25
Midterm Exam 2	November 20, 2018	25
Assignments	See Section 3	20
Final Examination		30
Total Weight		100

### Section 3: Assignment Schedule

Assignment Number	Date of Distribution	Due date
1	September 18, 2018	October 4, 2018
2	October 4, 2018	October 16, 2018
3	October 25, 2018	November 8, 2018
4	November 8, 2018	November 29, 2018

*Good Luck*