Mathematical Economics
COURSE OUTLINE,

Fall 2021   Professor: Hassouna Moussa

Office Location: BAC 347
Office Telephone: 902 585 1511
Email Address: moussa@acadiau.ca
Office Hours: Monday 1:30 pm - 3:00 pm

Recommended Textbooks:

- Lecture notes

- Fundamental Methods of Mathematical Economics, By Kevin Wainwright and Alpha Chiang 4th Edition

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
Week 1: Sep 8- Sep 10	Introduction, linear economic models	1, 2	3,
Week 2: Sep 13- Sep 17	Determinants and solutions of linear models	2,3	4
Week 3: Sep 20- Sep 24	Simple models of equilibrium analysis Leontief Input output	4	5
Week 4: Sep 27- Oct 1	Comparative Static Analysis and derivatives	5	6
Week 5: Oct 4- Oct 8	Comparative Static Analysis	5	7, 8
Week 6: Oct 11- Oct 15	Optimization of objective Functions of one Variable	6	9
Week 7: Oct 18- Oct 22	Optimization of functions of several variables	7	11
Week 8: Oct 25- Oct 29	Remembrance day and Fall Study Break		

Week 9: Nov 1- Nov 5	Exponential Growth Analysis	8	10
Week 10: Nov 8- Nov 12	Remembrance Day and Fall Study Week		
Week 11: Nov 15- Nov 19	Constrained Optimization	9	12
Week 12: Nov 22- Nov 26	Comparative statics of Optimization Problems	10	
Week 13: Nov 29- Dec 3	Comparative statics of Optimization Problems	10	

Section 2: Exam Dates and Grade Weight Distribution

	Date	Weight
Midterm Exam 1	October 21, 2021	35
Assignments	See Section 3	30
Final Examination		35
Total Weight		100

Section 3: Assignment Schedule

Assignment Number	Date of Distribution	Due date
1	September 23, 2021	October 5, 2021
2	October 5, 2021	October 14 , 2021
3	November 9, 2021	November 18, 2021
4	November 18, 2021	November 30, 2021