

Mathematics for Economics (and Applications)

627 M4720 02

1. Purpose of the course

This course is intended to help the students to learn and become familiar with the basic mathematical tools generally used in economic analysis. That the students learn how the tools can be applied is also a part of the purpose.

2. Outline

- (1) Review of required mathematical tools
- (2) Optimizations with and without constraints and applications
- (3) Comparative static analysis and Applications
- (4) Linear programming and applications
- (5) Dynamic models

3. Requirements

Assignments (20%), two tests (60%) and class participation (20%).

4. Texts

- (1) Required:

Chiang, A.C. and Wainwright, K., "Fundamental Methods of Mathematical Economics," 4th edition (McGraw Hill inc., 2005).

- (2) Recommended:

Sydsaeter, K. and Hammond, P.J., "Mathematics for Economic analysis," 2nd edition (Prentice Hall inc., 2000).

5. Dates and classroom (To be decided)