Linnæus University

Course syllabus

Faculty Board of Business, Economics and Design

School of Business and Economics

1NA001 Ekonomisk matematik II, 4 högskolepoäng
1NA001 Mathematical Economics II, 4 credits

Main field of study
Economics

Subject Group
Economics

Level of classification
First Level

Progression
G1F

Date of Ratification
Approved by Organisational Committee 2009-06-17
The course syllabus is valid from spring semester 2010

Prerequisites
Economics 1-30 higher education credits or equal

Objectives

After the course students should have:

- Basic knowledge of mathematical methods
- Knowledge of mathematical application in economics
- The ability to use mathematical methods applied on economic problems

Content

This course deals with functions of many variables, optimization with and without restrictions, linear algebra, and differen-tial and difference equations. The course is applied and is focused on problem solving in economics.

Type of Instruction

Lectures and exercises.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

The examination is normally done by written examination.

A retest will be offered a few weeks after the original test for students who have not successfully passed the original test. At least 5 tests will be offered.

The grades are Pass with Distinction (80%-100%), Pass (60%-79%) or Failure (0%-59%).

Students at Linnaeus University are entitled to have the course grade translated into the 7-step ECTS scale. A request to have the grades translated must be made to the teacher at the start of the course.

Course Evaluation

A written course evaluation is performed and compiled into a report to be kept in the university school archives. The result and any measures taken are communicated to the course co-ordinator and presented to the students participating the next time the course is offered.

Required Reading and Additional Study Material

Required reading

Sydsaeter, Knut and Peter Hammond,
Essential Mathematics for Economic Analysis,
Prentice Hall, latest edition, about 500 pages