



## Course syllabus

School of Business and Economics  
Department of Economics and Statistics

1NA015 Matematisk ekonomi I, 3 högskolepoäng  
Mathematical Economics I, 3 credits

### **Main field of study**

Economics

### **Subject Group**

Economics

### **Level of classification**

First Level

### **Progression**

GIN

### **Date of Ratification**

Approved by School of Business and Economics 2014-11-12  
The course syllabus is valid from autumn semester 2015

### **Prerequisites**

General entry requirements and Civics A or Civics 1b / 1a1 +1a2, Mathematics 2a / 2b / 2c.

## Objectives

After the course the student should be able to:

- make arithmetic calculations
- understand and solve algebraic problems
- understand and use functions and their properties
- define derivatives and differentiation rules
- use simple applications of differentiation

## Content

The content of the course is:

- basic arithmetic
- algebra
- equation solving
- functions and their properties
- definition of derivative and differentiation rules
- simpler applications of derivatives

## Type of Instruction

Lectures and exercises. Obligatory parts are stated in the schedule.

## Examination

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

Examination is carried out through a written examination.

After each regular examination there will be at least one new examination in close proximity to the date the results of the regular exam were posted. A minimum of five occasions for written exams will be offered in relation to the syllabus to which the student was accepted. Usually three occasions per academic year are offered. Students that fail reports can complement after instructions from the examiner to obtain a pass grade.

Grading criteria for the U–G scale are communicated in writing to the student by the start of the course/module at the latest, as well as how grades on separate elements of examination are weighed to a final course grade.

## Course Evaluation

A written course evaluation is carried out and compiled in a report, which is archived at the faculty. The results and possible measures taken are communicated by the course coordinator and presented to the students the next time the course is given, or in another way deemed suitable by the course coordinator. Other types of course evaluations, for example regular evaluations throughout the course or discussions with students, will be included and encouraged with the aim of ensuring continuous quality development.

## Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: The course overlaps 1NA000 with 3 credits.

## Required Reading and Additional Study Material

### **Required reading**

Månsson, J. *Grundläggande matematik för samhällsvetare och ekonomer*.

Studentlitteratur. Latest edition. About 192 pages.