



APPLIES TO ACADEMIC YEAR 2005/2006

## EXC 2503 Mathematics

### Program

Bachelor of Science in Business (1. year)

### Responsible for the course

Pål Lauritzen

### Department

Economics

### Term

According to study plan

### ECTS Credits

6

### Objective

The purpose of the course is to provide the students with enough mathematical knowledge and understanding to utilise mathematics as a tool within Business Management and Economics.

### Prerequisites

No particular prerequisites.

### Compulsory literature

#### Books:

Jacques, Ian. 2003. Mathematics for economics and business. 4th ed.. Harlow: Prentice Hall

### Recommended literature

### Course outline

- Linear equations
- Non-linear equations
- Exponential functions and logarithmic functions
- Differentiation
- Elasticity
- Optimization
- Functions of several variables
- Partial Differentiation
- Constrained and unconstrained optimization
- Integration

### Computer-based tools

Computer-based tools are not used in this course. "Blackboard" will be used as an information channel.

### Course structure

The course is based on 56 teaching hours of lectures which deal with important parts of the syllabus and 12 hours of problemsolving . Two compulsory assignments must be completed during the course. Both assignments must be passed in order to obtain final grade in the course. In addition to studying the textbooks, it is essential that students do exercises related to the syllabus. Students are also recommended to form study groups of 3 - 5 persons for the purpose of mutual help and support.

### Evaluation

Two individual assignments that must be passed, and a five-hour individual written examination concludes the course. The two individual assignments will be graded passed/failed and the written exam will be given ordinary grade.

### Evaluation code(s)

EXC 25031 - Assignment 1, passed/failed.  
EXC 25032 - Assignment 2, passed/failed.  
EXC 25033 - Written examination, counts for 100% to obtain final grade in EXC 2503  
Mathematics, 6 credits.

**Aids at the examination**

All aids are allowed.

**Makeup exam**

A makeup exam is held in every term