



APPLIES TO ACADEMIC YEAR 2003/2004

## EXC 2306 Mathematics

### Program

N/A

### Responsible for the course

Magne Aarset

### 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

Jacques, Ian. 2003. *Mathematics for Economics and Business*. 4th. ed. Harlow: Prentice Hall. ISBN 0273-65564-7.

### 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 54 + 12 teaching hours of lectures where the important parts of the syllabus will be presented. 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

A five-hour individual written examination concludes the course.

### Evaluation code(s)

EXC 23061 - written exam which accounts for 100% of the grade in EXC 2306, 6 ECTS credits.

**Aids at the examination**

All written or printed aids are allowed.

**Makeup exam**

A re-sit is held in connection with the next scheduled exam in the course.