EXC 2306 Mathematics

Program
Bachelor of Science in Business

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
None.

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 aids are allowed.

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