



APPLIES TO ACADEMIC YEAR 2008/2009

MET 2410 Mathematics

Program

Bachelor of Science in Business (1. year).

Responsible for the course

Tron Foss

Department

Department of Economics

Term

According to study plan

ECTS Credits

9

Language of instruction

Norwegian

Objective

The purpose of the course is to provide the students with mathematical knowledge and insight that will enable them to better understand and work on subjects related to business management.

Prerequisites

The course is based on mathematical knowledge corresponding to minimum two years of mathematics of the Upper Secondary School.

Compulsory literature

Books:

Bjørnstad, Harald ... [et al.]. 2007. Matematikk for økonomi og samfunnsfag. 7. utg. Kristiansand: Høyskoleforlaget

Other:

Foss, Tron. 2005. Eksamensoppgavesamling med løsningsforslag i matematikk for siviløkonomstudiet. Oslo: BI Forlag

Recommended literature

Books:

Bjørnstad, Harald ... [et al.]. 2007. Matematikk for økonomi og samfunnsfag: løsningsforslag. 7. utg. Kristiansand: Høyskoleforlaget

Course outline

- Basic subjects (Chapter 1)
- Functions of real variables (Chapter 2)
- Derivations with applications (Chapter 3)
- Exponential and logarithmic functions (Chapter 4)
- Series and applications to financial mathematics (Chapter 5.1-5.5)
- Integration's (Chapter 6)
- Functions of multiple variables (Chapter 7)
- Linear algebra (matrixes and determinants) (Chapter 8.1-8.5)
- Chapters 1,2 and part of 3 will be taught in the preparatory course.

Computer-based tools

Computer-based tools are not used.

Course structure

The course is organized over two terms with two parts.

- MET 2411 Mathematics - Fall
- MET 2412 Mathematics - Spring

Fall term: The course is based on 26 teaching hours of lectures (13 weeks). In addition 26 hours (13 weeks) of problemsolving.

Spring term The course is based on 42 teaching hours of lectures (14 weeks).

Evaluation

A Three-hour individual Multiple Choice exam at the end of the fall term in the first part of the syllabus.

Individual assignments will be graded passed/failed in the spring term.

A five-hour individual written examination at the end of the spring term in the second part of the syllabus.

Evaluation code(s)

MET 24103 Mathematics - Multiple Choice at the end of fall term, which accounts for 30% of the total grade in MET 2410 Mathematics, 9 credits.

MET 24104 Mathematics - Assignment pass/fail, spring term

MET 24105 Mathematics - Written exam at the end of spring term, which account for 70% of the total grade in MET 2410 Mathematics, 9 credits.

All exams must be passed to obtain final grade in the course.

Aids at the examination

All aids are allowed.

Exam aids at written examinations are explained under exam information in our web-based Student handbook. Please note use of calculator and dictionary.

<http://www.bi.edu/studenthandbook/examids>

Makeup exam

At the same time as the ordinary part exams (next year).