

Faculty of Science

NUMA41, Numerical Analysis: Basic Course, 7.5 credits Numerisk analys: Grundkurs, 7,5 högskolepoäng First Cycle / Grundnivå

Details of approval

The syllabus is an old version, approved by Study programmes board, Faculty of Science on 2016-02-25 and was valid from 2016-02-25, spring semester 2016.

General Information

The course is an elective course for first-cycle studies for a degree of Bachelor of Science (180 credits) in mathematics.

Main field of studies	Depth of study relative to the degree requirements
Mathematics	G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

Learning outcomes

The aim of the course is that the student on completion of the course should have acquired the following knowledge and skills:

Knowledge and understanding

On completion of the course, the student must

- be familiar with the basic theory of construction of computable approximations of the most common types of mathematical models within the natural sciences.
- have acquired basic knowledge for further studies in numerical analysis.

Competence and skills

In order to pass the course, the student must

- be able to account, in writing, for the solutions of ,as well as the numerical results for, given problems.
- be able to, with adequate terminology and in a logically well-structured manner, account for the construction of basic numerical methods and algorithms.
- be able to, with adequate terminology and in a logically well-structured manner, account for the numerical solution of a problem with a mathematical formulation.

Course design

Assessment

Grades

Marking scale: Fail, Pass, Pass with distinction.

Entry requirements