



SF2523 Topics in Scientific Computings 3.0 credits

Problem inom beräkningsvetenskaper

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for SF2523 valid from Autumn 2014

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Mathematics, Technology

Specific prerequisites

Single course students: 90 university credits including 45 university credits in Mathematics. English B, or equivalent.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The overall goal of the course is to give a deep plunge into a current problem in scientific computing.

After the course you will be able to

- select and implement appropriate methods for an advanced specific problem
- perform simulations of the problem with the help of appropriate software
- judge the quality of the results and suggest improvements of the algorithms and the code.

Course contents

A problem from scientific computing on advanced level will be presented. The topics will differ on the occasions the course is given. The course will be given as a lecture series to be followed and a project to be accomplished.

Course literature

Depends on the actual subject

Examination

- PRO1 - Project, 3.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

In this course all the regulations of the code of honor at the School of Computer science and Communication apply, see: <http://www.sci.kth.se/institutioner/math/avd/na/utbildning/hederskodex-for-studerande-och-larare-vid-kurser-pa-avdelningen-for-numerisk-analys-1.357185>

Other requirements for final grade

PRO1 – Project, 3.0 credits, grade scale: P, F

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.