



## Course syllabus

Faculty Board of Science and Engineering  
School of Computer Science, Physics and Mathematics

1DV005 Problemlösning och modellering, 7,5 högskolepoäng  
Problem Solving and Modelling, 7.5 credits

### **Main field of study**

Computer Science

### **Subject Group**

Informatics/Computer and Systems Sciences

### **Level of classification**

First Level

### **Progression**

GIN

### **Date of Ratification**

Approved by Organisational Committee 2009-12-01

The course syllabus is valid from autumn semester 2010

### **Prerequisites**

General entry requirements.

## Expected learning outcomes

On completion of the course, students are able to:

- understand and describe the need for and the importance of models in problem solving
- describe and explain some modelling and problem solving strategies
- select and apply suitable strategies for a given problem
- communicate and discuss problem solving issues

## Content

The course introduces students to:

- basic modelling principles with applications from computer science
- basic problem solving strategies with applications from computer science
- practical problem solving, individually and in groups

## Type of Instruction

Teaching consists of lectures, seminars and practicals. Practicals are carried out individually or in groups. Attendance at some activities is mandatory.

## Examination

The course is assessed with the grades Fail (U) or Pass (G).

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Assessments of student performance consists of written and/or oral examinations and/or presentation of mandatory assignments. The assessment method is decided at the start of the course.

Students who do not pass the regular examination are given the opportunity to do a resit examination shortly after the regular examination.

### Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

### Other

Upon request, a Swedish University degree will be issued upon successful completion of the full demand for that degree.

Students who receive a passing grade in the course may download a course certificate through the Student Portal. Otherwise they may request a course certificate from the school secretary.

### Required Reading and Additional Study Material

#### **Required reading**

DFM, *Material*. Pages app. 150.