Department of Mathematics
(incl. Math. Statistics)

Stockholm University

Syllabus

for course at first level

Object Oriented Programming
Objektorienterad programmering

7.5 Higher Education Credits
7.5 ECTS credits

Course code:	DA3002
Valid from:	Autumn 2007
Date of approval:	2006-09-27
Department	Department of Mathematics (incl. Math. Statistics)
Subject	Computer Science
Specialisation:	G1F - First cycle, has less than 60 credits in first-cycle course/s as entry requirements

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University, September 27, 2006.

Prerequisites and special admittance requirements

For course admission knowledge equivalent to the following is required: Computer Science I, FL, 15 HECs (DA2001), and the Algebra part, 15 HECs, of Mathematics I, FL, 30 HECs (MM2001).

Course structure

Examination code	Name	Higher Education Credits
THEO	Theory	4.5
LABO	Practical Exercises	3

Course content

a. The course covers object oriented concepts and design principles. Object oriented programming methods and techniques. Algorithms for searching, sorting, and storing.

b. The course includes the following elements:
• Theory, 4.5 HECs
• Practical Exercises, 3 HECs

Learning outcomes

It is expected that the student after taking the course will:
• be able to explain and use object oriented concepts,
• be able to develop larger object oriented programs,
• in a given situation be able to decide which method that is the most useful for searching, storing or sorting.

Education

The education consists of lectures, exercises, presentations, and practical exercises.

Participation in the practical exercises is compulsory. An examiner may rule that a student is not obliged to participate in certain compulsory education, if there are special grounds for this, after consultation with the relevant teacher.

Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through written and/or oral examination, and oral presentations of exercises.

b. Grading is carried out according to a 7-point scale related to learning objectives:
A = Excellent
B = Very Good
C = Good
D = Satisfactory
E = Sufficient
Fx = Fail
F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with completion of all practical exercises, followed by its presentation and award of a ”Sufficient” grade.

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

Limitations

The course may not be included in a degree together with the course Computer Science, Basic Course II (NA2030), Object Oriented Programming I (NA8720), Computer Science II, FL (DA3001), or the equivalents.

Misc

The course is given as an individual course.

Required reading

Course literature is decided by the departmental board and is described in an appendix to the syllabus.