



ID2013 Internet Programming I

7.5 credits

Internetprogrammering I

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

Establishment

Course syllabus for ID2013 valid from Spring 2010

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Specific prerequisites

For single course students the following is required:

- Academic records corresponding to /180 hp in Information Technology, Information Systems, Computer Sciences or corresponding subject and
- documented proficiency in Swedish B and English A or equivalent.

Language of instruction

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

Intended learning outcomes

Upon completion of the course the student should be able to construct programs that communicate over Internet with arbitrary protocols and techniques.

Course contents

- Supporting techniques
- Start from HTML
- High level connections to specific servers
- Low level connections to arbitrary servers
- Database connections with Java Database Connectivity (JDBC)
- E-mail with Javamail
- Media transfer
- Security

For a more detailed description see:
<http://dsv.su.se/~pierre/i/>

Disposition

This is a distance learning course and the pedagogy for this course is assignment based learning with a large element of freedom in the problem solving process. The course brings up a large subject area by presenting a set of assignments where each assignment:

- Focuses on one sub area at a time to increase understanding and to reduce complexity
- Is specified in a general way to motivate alternative, possibly deeper, solutions

The course requires the skill to work alone but has a large element of interactivity by continuous and direct support from tutors at distance.

Course literature

Preliminary

Harold: Java Network Programming (Upplaga: 3rd Edition), O'Reilly, 2004, 0-596-00721-3

Equipment

PC and Internet connection. Distance education.

Examination

- INLA - Assignment, 3.0 credits, grading scale: P, F
- INLB - Assignment, 3.0 credits, grading scale: P, F

- INLC - Assignment, 1.5 credits, grading scale: A, B, C, D, E, FX, 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.

A number of practical assignments must be made. They are divided into three parts:

- Part 1: Introductory fixed assignments (pass/fail)
- Part 2: More advanced less fixed assignments (pass/fail)
- Part 3: A summarizing free assignment (and voluntary assignments) (A/B/C/D/E/Fx/F)

Note that the total grade is determined by the grade on part 3. For a higher grade more in-depth assignments must be made. The summarizing free assignment must also be increasingly better for a higher grade. This is described in detail on the course homepage.

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.