



LUND
UNIVERSITY

School of Economics and Management

INFC55, Informatics: Web Development, 7.5 credits

Informatik: Webbutveckling, 7,5 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by The Board of the Department of Informatics on 2014-03-10 and was last revised on 2019-05-22. The revised syllabus applies from 2019-09-02, autumn semester 2019.

General Information

The course may be included in the Bachelor of Science programme in Information Systems or taken as a freestanding course.

Language of instruction: Swedish and English

Main field of studies

Information Systems

Informatics

Depth of study relative to the degree requirements

G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

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Learning outcomes

The aim of the course is that students who have passed the course are to have an understanding of the development of online information systems. Furthermore, students shall also demonstrate the ability to plan and develop both client-based and server-based solutions connected to underlying computer systems.

Knowledge and understanding

For a pass on the course, students shall demonstrate knowledge and understanding of

- the syntax for markup languages
- the syntax for script languages

- basic style templates
- server-based programming languages
- the basics of web publishing.

Competence and skills

For a pass on the course, students shall demonstrate competence and skills to

- use modern software as support for web development
- design and develop web systems
- test and evaluate completed web systems
- integrate different underlying computer systems with web systems.

Judgement and approach

For a pass on the course, students shall demonstrate the ability to

- critically analyse and assess different architectural choices
- explain and justify design decisions.

Course content

The course starts with the development of web pages using modern markup languages. In order to simplify development and maintenance, the students are introduced to style templates. The course includes script programming and the use of script libraries to enable the creation of dynamic web systems. As a complement, database systems and other web systems are used as data sources.

The course deals with

- the basics of markup languages
- style templates
- script programming
- script libraries
- client-based development
- server programming
- database use.

Course design

The teaching consists of lectures, seminars, laboratory sessions and supervision.

The course includes compulsory components. These are indicated in the timetable.

Assessment

The assessment is based on an exam and assignments.

Re-examinations are offered in close conjunction with the first examination.

The test and course grades are determined by the course examiner. The examiner is entitled to change the grades given by the teachers on the course if this does not violate Chapter 6, Section 24 of the Higher Education Ordinance (1993:100).

Academic misconduct such as cheating, plagiarism, fabrication and falsification is considered a serious offence in higher education (see Chapter 10 of the Higher Education Ordinance). The disciplinary measures that may be taken as a result of such offences are caution or suspension for a limited period of time from the university (and all the faculties of the university).

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, E, D, C, B, A.

Grade (Definition) Points or percentage out of maximum points. Characteristic.

A (Excellent) 85-100. A distinguished result that is excellent with regard to theoretical depth, practical relevance, analytical ability and independent thought.

B (Very good) 75-84. A very good result with regard to theoretical depth, practical relevance, analytical ability and independent thought.

C (Good) 65-74. The result is of a good standard with regard to theoretical depth, practical relevance, analytical ability and independent thought and lives up to expectations.

D (Satisfactory) 55-64. The result is of a satisfactory standard with regard to theoretical depth, practical relevance, analytical ability and independent thought.

E (Sufficient) 50-54. The result satisfies the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independent thought, but not more.

F (Fail) 0-49. The result does not meet the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independent thought.

To pass the course, the students must have been awarded the grade of E or higher.

Grading rules and definitions

Grades are awarded according to a graded scale from A (highest) to F (lowest), with E as the minimum passing grade.

When the exam/assignment is not graded, the grades G (Pass) or F (Fail) will be applied.

Course grades

When calculating course grades, the graded components will be weighted according to the following formula:

The number of credits for the exam is multiplied with the exam score. The total value is then divided by the total number of credits for the exams/assignments included. The resulting average is then rounded off to the nearest whole number. The number indicates the relevant course grade in accordance with the grading definitions above.

For exams/assignments which are graded and scored, the grades A to F will be used in accordance with the grading definitions above. The exam score will be used directly in the calculation.

For exams/assignments which are graded but not scored, the grades A to F will be used and converted as follows: A = 92, B = 80, C = 70, D = 60, E = 52.

Exams/assignments which are not graded but awarded with G (Pass) or F (Fail) will not be included in the calculation of the course grade.

Entry requirements

To be admitted to the course, the student must have passed the general requirements and the courses: "Informatics: Introduction to Information Systems, 1-30 cr" and "Information Systems: IS and Business Development, 31-60 cr" or the equivalent. English 6/English Course B.

An exception for the general entry requirement in Swedish will be granted when the course is given in English.

Further information

The course may be included in the Bachelor of Science programme in Information Systems, in accordance with a decision by the programme director.

Attendance is compulsory at the introductory meeting when a roll call takes place. Unjustified absence entails that the admitted student loses his or her place on the course.

Please contact the study advisor for an individual assessment with regard to transitional provisions.

If the course is discontinued, there may be limited opportunities for re-examination. Please contact the study advisor for information.

Amendments

2015-06-05: Amended reading list from the autumn semester 2015.

2015-12-04: Added standard phrase on attendance at the roll call. Editorial changes.

2016-06-03: New grading rule from the autumn semester 2016.

2019-05-22: New reading list from autumn semester 2019.

Subcourses in INFC55, Informatics: Web Development

Applies from H14

- 1401 Written Exam, 3,0 hp
Grading scale: Fail, E, D, C, B, A
Individual exam.
- 1402 Assignments, 4,5 hp
Grading scale: Fail, Pass
Individual and in groups.