



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 is an old version, approved by The Board of the Department of Informatics on 2014-03-10 and was last revised on 2015-12-04. . The revised syllabus applied from 2016-08-29. , autumn semester 2016.

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: English and Swedish

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

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

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 of 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.

Cheating such as plagiarism, fabrication and falsification is considered a serious offence in higher education (see Chapter 8 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.

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.

Grades (Designation) Points or percentage of maximum points. Description.

A (Excellent) 85-100. An excellent result in terms of theoretical depth, practical relevance, analytical ability and independence.

B (Very good) 75-84. A very good result in terms of theoretical depth, practical relevance, analytical ability and independence.

C (Good) 65-74. A good result in terms of theoretical depth, practical relevance, analytical ability and independence.

D (Satisfactory) 55-64. A satisfactory result in terms of theoretical depth, practical relevance, analytical ability and independence.

E (Acceptable) 50-54. A result that satisfies the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independence.

U (Inadequate/Fail) 0-49. An inadequate result in terms of theoretical depth, practical relevance, analytical ability and independence.

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

Grading rules

Exam assessment

The grades A to E and U are applied to exams which are awarded *different passing grades*.

The grades U and G (Fail and Pass) are applied to exams which are *not awarded different passing grades*.

Course assessment

A grade for the entire course is awarded when all exams included in the course have been passed. The assessment is based on all the exams that have been awarded the grades A to E and U and the numbers assigned to the letters according to the following list: A = 15, B = 14, C = 13, D = 12, E = 11.

The exams with different passing grades are weighted according to the following formula:

The number of credits for the exam is multiplied with the value of the grade according to the list above. The total value is then divided by the total number of credits for the exams included. The resulting average is then rounded off to the nearest whole number and the number indicates the relevant course grade in the list above.

Exams awarded the grades of U and G are not included in the calculation of the course grade.

Entry requirements

To be admitted to the course, students must satisfy the general admission requirements for higher education in Sweden and have passed the courses Informatics: Introduction to Information Systems, 30 credits, and Informatics: Level 2, 30 credits, or the equivalent. English 6/English B.

When the course is taught in English, students are exempted from the general admission requirements of Swedish B from Swedish upper secondary school.

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 on 7 March 2014.

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

5 June 2015: Change in the required reading.

4 December 2015: Added standard phrase on attendance at the roll call. Editorial changes.

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.