

INFA44, Informatics: Introduction to E-health, 7.5 credits

Informatik: Introduktion till e-hälsa, 7,5 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by The Board of the Department of Informatics on 2020-06-15 (U 2020/588) and was last revised on 2024-09-18. The revised syllabus comes into effect 2025-03-15 and is valid from the autumn semester 2025.

General information

The course is given as a freestanding online course.

Language of instruction: English

Main field of study

Specialisation

Informatics

G1N, First cycle, has only upper-secondary level entry requirements

Learning outcomes

The course provides an introduction to e-health by introducing basic concepts and describing how added value can be created in health care processes by the use of e-health systems. The course also provides knowledge about process analysis and information security in health care as well as an overview of current e-health research.

Knowledge and understanding

To pass the course, the student must demonstrate knowledge of and understanding of

- basic concepts within e-health
- the connection between health care processes and information systems
- the basics of process analysis, requirements handling and evaluation of e-health systems
- the basics of information security in health care
- current research topics and trends within e-health

Competence and skills

To pass the course, the student must demonstrate competence and skills individually or in groups to

- perform a prestudy for an implementation of an e-health system

Judgement and approach

To pass the course, the student must demonstrate the ability to

- evaluate how e-health systems can contribute to creating added value in health care

Course content

The course provides basic knowledge on the topic of e-health from an information systems perspective and includes:

- an introduction to information systems in health care including an overview of current systems, a historic view of e-health and the connection between health care processes and information systems
- process analysis, requirements handling and evaluation of information systems in health care
- information security in health care
- current research topics and trends within e-health

Course design

The course is divided into five parts where recorded lectures will be provided along with application assignments and quizzes, which evaluates the student's learning in the module. In the fifth course module, a major assignment is completed which summarises and examines the entire course.

The teaching is given entirely online via an internet-based learning platform. It is assumed that the student participates in these conditions and has access to a computer with a network connection. Access to teachers for questions and guidance is provided via the internet-based learning platform.

Assessment

The assessment is based on individual quizzes and discussion assignments within each module. The course is concluded by a larger assignment where a prestudy for the implementation of an e-health system should be performed, individually or in a group of students.

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).

Examinations

- Seminars, 1.0 cr, grading scale: U-G, individual examination
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- Project, 3.5 cr, grading scale: U-A, individual or group examination

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.

Grades

Grading scale includes the grades: U=Fail, E=Sufficient, D=Satisfactory, C=Good, B=Very Good, A=Excellent

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.

U (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 student must have been awarded the grade of E or higher.

Grading rules and definitions

Examination grades

Examinations are graded according to the grading scale U-A or the grading scale U-G (Fail-Pass).

Course grade

A passing grade on all examinations is required to pass the course.

1. For each examination with the grading scale U-A, the obtained points are multiplied by the number of credits for the examination. Grades without points are converted as follows: A = 92, B = 80, C = 70, D = 60, E = 52.
2. The products of the included examinations are summed up and divided by the total number of credits of the included examinations.
3. This results in a weighted average which determines the course grade. 85–100 gives the grade A, 75-84 gives the grade B, 65-74 gives the grade C, 55–64 gives the grade D, 50–54 gives the grade E.

Examinations with the grading scale U-G are not included in the calculation of the course grade.

Entry requirements

General requirements for university studies in Sweden

Further information

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

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