



LUND
UNIVERSITY

School of Economics and Management

SASE40, 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 to be valid from 2020-08-31, autumn semester 2020.

General Information

The course is given as a distance course.

Language of instruction: English

Main field of studies

Informatics

Depth of study relative to the degree requirements

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 describe 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

In order to pass the course, the student must be able to 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

In order to pass the course, the students must be able to demonstrate competence and skills individually or in groups to

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

Judgement and approach

In order to pass the course, the students must be able to 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 modules where recorded lectures will be provided along with application assignments and quizzes, which evaluate students' learning in the module. In the fifth course module, a major assignment is completed which summarizes and examines the entire course.

The teaching is given entirely on distance 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 in the course will be performed by 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.

Cheating such as 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.

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

General requirements for university studies in Sweden

Further information

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

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

Subcourses in SASE40, Informatics: Introduction to E-health

Applies from H20

- 2001 Seminars, 1,0 hp
Grading scale: Fail, Pass
- 2002 Seminars, 1,0 hp
Grading scale: Fail, Pass
- 2003 Seminars, 1,0 hp
Grading scale: Fail, Pass
- 2004 Seminars, 1,0 hp
Grading scale: Fail, Pass
- 2005 Project, 3,5 hp
Grading scale: Fail, E, D, C, B, A
The project is carried out individually or in groups.