



School of Economics and Management

INFC75, Informatics: Digital Innovation and Transformation, 7.5 credits

Informatik: Digital innovation och transformation, 7,5 högskolepoäng
First Cycle / Grundnivå

Details of approval

The syllabus was approved by The Board of the Department of Informatics on 2024-05-29 and was last revised on 2024-09-18. The revised syllabus comes into effect 2024-09-18 and is valid from the spring semester 2025.

General information

The course is optional within the Bachelor's Programme in Design of Information Systems. It is also given as a freestanding course.

Language of instruction: English

<i>Main field of study</i>	<i>Specialisation</i>
Information Systems	G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements
Informatics	G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

Learning outcomes

Upon completion of the course, the student will have acquired an understanding of and competences in creating, developing and commercialising digital innovations through a blend of theoretical knowledge and practical application, with considerations of the potential impact of innovative technological solutions on business and society. The student will be equipped with an understanding of digital transformation, grounded in the digital innovation processes, methods, techniques and tools explored in the course. They will also have the skills for ensuring operational efficiency and developing new ideas in solving organisational and societal problems.

Knowledge and understanding

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

- methodologies, techniques, and tools used in applying various strategic frameworks to bring/deploy information technologies to innovate and transform organisational processes and value offering
- theoretical and practical aspects and process of digital innovation, digital transformation and managing digital innovation, to create, distribute and commercialise digital solutions effectively
- principles for digital innovation and open innovation

Competence and skills

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

- use techniques for requirement engineering, market analysis, and finding new opportunities for innovative digital systems
- conduct IT-driven projects in a professional environment using models and project management tools and frameworks to align new technologies with organisational demands
- create innovative digital solutions to existing problems, with short- and long-term strategic planning
- use and develop digital business models, while practically demonstrating the investigation and application of an innovation in a digital transformation process
- critically reflecting on emerging digital technologies and be proficient and skilled in pitching techniques and methods for offering a particular new digital system

Judgement and approach

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

- evaluate organisational strategies, assess current situations, problems and needs, and arrange problem-solving approaches for delivering high-quality digital solutions through effective communication and critical thinking
- evaluate opportunities for developing novel digital business models, ideas, solutions and demonstrating inventive, self-directed, and purpose-driven decision-making
- assess and value key issues related to implementation and infrastructure, ensuring effective planning and execution of digital solutions aligned with organisational goals and societal values

Course content

The course covers the following areas:

- Informations systems based business development

- Digital transformation
- Open innovation
- Managing innovation and digitalisation
- Digital strategy for innovation

Course design

The teaching consists of lectures, lessons, workshop sessions, seminars and supervision.

Assessment

The assessment is based on group assignments, a project assignment and an individual assignment.

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

- Group Assignments, 2.0 cr, grading scale: U-G, group examination
- Project Assignment, 2.5 cr, grading scale: U-A, group examination
- Individual Assignment, 3.0 cr, grading scale: U-A, individual 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

Admission to the course requires general requirements and English 6 as well as the courses: "Informatics: Introduction to Information Systems, 1-30 cr" and "Informatics: Information Systems and Business Development, 31-60 cr" or the equivalent.

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

Further information

It is compulsory to attend the introduction meeting, where a roll call will be taken. Absence without notification means that the admitted student will lose their seat on the course.

For transitional provisions with regard to previous courses, please contact the study adviser for an individual assessment.

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