



School of Economics and Management

## **SYSA12, Informatics: Information Systems and Business, 30 credits**

*Informatik: Informationssystem och verksamhet, 30 högskolepoäng*  
**First Cycle / Grundnivå**

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### **Details of approval**

The syllabus is an old version, approved by The Board of the Department of Informatics on 2013-09-20 and was valid from 2014-01-20, spring semester 2014.

### **General Information**

The course makes up the second semester of the BSc programme in Design of Information Systems.

*Language of instruction:* Swedish

Required reading in English may be included.

*Main field of studies*

Information Systems

Information Systems

*Depth of study relative to the degree requirements*

G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements

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### **Learning outcomes**

On completion of the course, the student shall have obtained knowledge of relevance for work with practical IT/IS development within the fields of group dynamics and communication, organisation, operations and IT/IS, project management, interaction design, IT law and IS projects.

### **Knowledge and understanding**

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

- basic theories, models and concepts within group psychology
- conversation and interview methodology
- basic theories, models and concepts of IT and IS in organisations
- the impact of the design and use of IS on organisations, activities and individuals
- the impact of the needs and requirements of organisations on the use, design and introduction of IT and IS
- the knowledge development, problems and prerequisites of project management
- their different roles, areas of responsibility and cooperation in a development process
- the life cycle and different phases of a project
- the context and stakeholders of a project
- choices of interaction-oriented methods
- interaction design and development of sustainable IS solutions
- legal provisions that are of relevance to the use of information technology

### **Competence and skills**

For a pass on the course, students shall demonstrate competence and skills individually or in groups to

- use simple methods to structure, support and evaluate the cooperation in a study or working group
- use methods and models to analyse problems and prerequisites for the development of IS solutions
- explain how an IS design contributes to the improvement of an organisation and its activities
- identify the need of different roles and areas of responsibility in a project
- plan, carry out and report an IS project
- seek, collect and assess different types of information that concern a project and its management
- work with interaction design and methods for increased user focus
- identify target groups for the development of IT/IS solutions
- identify, analyse and solve issues of IT law

### **Judgement and approach**

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

- reflectingly connect theoretical concepts to their own experience of group work
- assess the mutual impact of organisations and their activities and IS
- assess projects and the scope for action of the project management
- assess the role of the designer in interaction-related processes
- choose, assess and explain the choice of representatives for target groups and other stakeholders
- assess the advantages and shortcomings of methods within interaction design
- assess different legal methods employed by society in the meeting with information technology
- independently document, reflect on and evaluate their own learning process and goal attainment

## Course content

The course deals with

- psychological theories and models for understanding communication and group processes in overview
- different roles, areas of responsibility and authorities within an organisation
- the internal processes of organisations with regard to efficiency improvement and IT support
- the structure and context of organisations and the interaction with IT and IS
- the roles of different IT systems in an organisation
- the function and interaction of organisations with other organisations and wider society
- the frames, complexity and prerequisites for projects and project management
- project brief, project definition and establishment
- project management, implementation and evaluation
- project ethics
- methods and assessment criteria for interaction-oriented development
- interface design
- choice of interaction-oriented methods for the development of IS solutions
- human limitations of relevance to interface design
- contract and purchasing law from an IT law perspective
- electronic agreements, electronic payment, rules about remote agreements and electronic signatures
- intellectual property rights, particularly copyright and patent law in a digital environment
- personal data protection, electronic communication, responsibility for electronic notice boards
- online marketing, issues of international private and procedural law and certain penal law issues
- simplified methods for problem identification in view of prioritisation, choice and development of mission critical solutions
- a project based on the different subareas of the course addressing the development and change of an IS

## Modules

Group Dynamics and Communication, Organisation, Business and IS, Project Management, Interaction Design, IT Legislation.

## Course design

The teaching consists of lectures, lessons, seminars, workshops, laboratory exercises, conversation and interview exercises, group exercises and supervision.

The course may include compulsory components. They are stated in the timetable.

## Assessment

The assessment is based on written exams, assignments and reports.

Assessed components including documentation and written reflections are compiled in the student's learning portfolio (subject examined 1110).

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. Definition.

**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 have passed SYSA11 or the equivalent.

## **Further information**

SYSA12 is a programme-specific course and only students on the BSc in Design of Information Systems are admitted.

SYSA12 may not be included in a degree together with SYSA02 or the equivalent.

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.

*Amendments*

20 January 2012: The assessment of? Project Management is changed from individual assignments? to group assignments

8 November 2013: Updated reading list for the module IT Legislation.

## Subcourses in SYSA12, Informatics: Information Systems and Business

Applies from V12

- 1101 Group Dynamics and Communication, Written Exam, 3,0 hp  
Grading scale: Fail, E, D, C, B, A  
Individual exam.
- 1102 Organisation, Business and IS, Written Assignment, 3,0 hp  
Grading scale: Fail, E, D, C, B, A  
Group assignment.
- 1103 Organisation, Business and IS, Written Exam, 4,0 hp  
Grading scale: Fail, E, D, C, B, A  
Individual assignment.
- 1104 Project Management, Written Exam, 4,0 hp  
Grading scale: Fail, E, D, C, B, A  
Individual exam.
- 1105 Project Management, Written Group Assignments, 3,0 hp  
Grading scale: Fail, Pass
- 1106 Interaction Design, Written Exam, 3,0 hp  
Grading scale: Fail, E, D, C, B, A  
Individual exam.
- 1107 Interaction Design, Written Assignment, 3,0 hp  
Grading scale: Fail, E, D, C, B, A  
Group assignment.
- 1108 IT Legislation, Written Exam, 4,0 hp  
Grading scale: Fail, E, D, C, B, A  
Individual exam.
- 1109 IS Project, Written Assignment, 2,0 hp  
Grading scale: Fail, E, D, C, B, A  
Group assignment.
- 1110 Learning Portfolio, Written Assignment, 1,0 hp  
Grading scale: Fail, Pass