

## **Bachelor's programme in Information Systems Analysis**

Kandidatprogrammet i systemvetenskap  
180 credits

F7KSY

Valid from: 2022 Autumn semester

**Determined by**

Board of the Faculty of Arts and Sciences

**Date determined**

2006-08-30

**Revised by**

Course and Programme Syllabus Board at the Faculty of Arts and Sciences

**Revision date**

2014-11-28; 2016-04-11; 2017-10-20; 2021-06-28

**Registration number**

LiU-2016-00210; LiU-2021-01431

**Offered first time**

Autumn semester 2007

**Offered for the last time**

**Replaced by**

## Entry requirements

General entry requirements for undergraduate studies  
and  
Social Studies and Mathematics corresponding to the level in Swedish upper  
secondary education (Samhällskunskap 1b or 1a1 and 1a2 and Matematik  
2a/2b/2c or Matematik B)

## Degree in Swedish

Filosofie kandidatexamen med huvudområde informatik med inriktning  
Management och verksamhetsutveckling eller Systemutveckling

## Degree in English

Degree of Bachelor of Science (180 credits) with a major in Information Systems  
with specialisation in System Development or Management and Organisational  
Development

## Curriculum

### Semester 1 (Autumn 2022)

| Course code | Course name   | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|---|---------|-------|----------------|------------------|-----|
| 725G96      | Introduction to Information Systems – human, technology, organization | 7.5     | G1N   | v202235-202240 | 2/4              | C   |
| 725G92      | Problem Solving and Programming                                       | 7.5     | G1N   | v202235-202302 | 1                | C   |
| 726G37      | IT-projects and Project Management                                    | 7.5     | G1N   | v202241-202246 | 2/4              | C   |
| 726G35      | Discrete Mathematics and Logic  | 7.5     | G1N   | v202246-202302 | 2/3/4            | C   |

### Semester 2 (Spring 2023)

| Course code | Course name                                | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|--|---------|-------|----------------|------------------|-----|
| 725G90      | Object Oriented Programming in Java        | 7.5     | G1N   | v202303-202311 | 1                | C   |
| 726G83      | Information Systems Development            | 7.5     | G1N   | v202304-202313 | 2/4              | C   |
| 725G88      | Qualitative Methods in Theory and Practice | 7.5     | G1N   | v202314-202318 | -                | C   |
| 725G87      | User Perspectives on Digital Design        | 7.5     | G1N   | v202319-202323 | -                | C   |

### Semester 3 (Autumn 2023)

*Specialisation: Management and organisational development*

| Course code | Course name                                   | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|---|---------|-------|----------------|------------------|-----|
| 723G70      | Management Accounting and Decision Support    | 7.5     | G1N   | v202334-202343 | 2/4              | C   |
| 725G94      | Organisational Development and Digitalization | 7.5     | G1N   | v202334-202343 | 1/3              | C   |
| 725G28      | Databases and Data Modelling                  | 7.5     | G1N   | v202344-202403 | 2/4              | C   |
| 725G49      | Enterprise Systems                            | 7.5     | G1N   | v202344-202403 | 1/3              | C   |

*Specialisation: System development*

| Course code | Course name                                | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|--|---------|-------|----------------|------------------|-----|
| 723G70      | Management Accounting and Decision Support | 7.5     | G1N   | v202334-202343 | 2/4              | C   |
| 725G97      | Data Structures and Algorithms             | 7.5     | G1N   | v202335-202343 | 3                | C   |
| 725G28      | Databases and Data Modelling               | 7.5     | G1N   | v202344-202403 | 2/4              | C   |
| 725G49      | Enterprise Systems                         | 7.5     | G1N   | v202344-202403 | 1/3              | C   |

**Semester 4 (Spring 2024)**

*Specialisation: Management and organisational development*

| Course code | Course name                                     | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|---|---------|-------|----------------|------------------|-----|
| 725G86      | The Digitization of Society                     | 7.5     | G1N   | v202404-202408 | -                | C   |
| 726G01      | Information Technology Law for Systems Analysts | 7.5     | G1N   | v202409-202413 | -                | C   |
| 726G30      | Sustainable Agile Project Management            | 7.5     | G1N   | v202414-202418 | -                | C   |
| 725G98      | Perspectives on Security and IT                 | 7.5     | G1N   | v202419-202423 | -                | C   |

*Specialisation: System development*

| Course code | Course name                                     | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|---|---------|-------|----------------|------------------|-----|
| 725G86      | The Digitization of Society                     | 7.5     | G1N   | v202404-202408 | -                | C   |
| 726G01      | Information Technology Law for Systems Analysts | 7.5     | G1N   | v202409-202413 | -                | C   |
| 726G30      | Sustainable Agile Project Management            | 7.5     | G1N   | v202414-202418 | -                | C   |
| 725G98      | Perspectives on Security and IT                 | 7.5     | G1N   | v202419-202423 | -                | C   |

## Semester 5 (Autumn 2024)

### *Specialisation: Management and organisational development*

| Course code | Course name  | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|--|---------|-------|----------------|------------------|-----|
| 723G54      | Business Ethics in a Globalized World                    | 7.5     | G1N   | v202434-202438 | -                | E   |
| 723G92      | Organization Theory and Analysis                         | 7.5     | G1N   | v202434-202438 | -                | E   |
| 726G33      | Co-creating Digital Solutions and Automation             | 7.5     | G2F   | v202434-202438 | -                | E   |
| 732G50      | Introductory Statistics                                  | 7.5     | G1N   | v202434-202438 | -                | E   |
| 725G44      | Practical Training - Information Technology and Business | 15      | G2F   | v202434-202503 | -                | E   |
| 729G85      | Interaction Design and User Experience                   | 9       | G2F   | v202435-202445 | 1                | E   |
| 723G58      | Entrepreneurship and Business Development                | 7.5     | G1N   | v202439-202443 | -                | E   |
| 723G94      | Leadership across Cultures                               | 7.5     | G1N   | v202439-202443 | -                | E   |
| 723G62      | Sustainable Business - an ecological perspective         | 7.5     | G2F   | v202444-202448 | -                | E   |
| 723G96      | Human Resource Management                                | 7.5     | G1N   | v202444-202448 | -                | E   |
| 726G31      | Digital Innovation Strategy and Entrepreneurship         | 7.5     | G2F   | v202444-202503 | 1                | E   |
| 726G32      | Business Intelligence and Data-driven Business Models    | 7.5     | G2F   | v202444-202503 | 3                | E   |
| 723G66      | International Business                                   | 7.5     | G1N   | v202449-202503 | -                | E   |
| 747A53      | Information Technology Law, continuation course          | 7.5     | A1N   | v202449-202503 | -                | E   |

*Specialisation: System development*

| Course code | Course name  | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|--|---------|-------|----------------|------------------|-----|
| 732G50      | Introductory Statistics                                  | 7.5     | G1N   | v202434-202438 | -                | E   |
| 725G44      | Practical Training - Information Technology and Business | 15      | G2F   | v202434-202503 | -                | E   |
| 729G85      | Interaction Design and User Experience                   | 9       | G2F   | v202435-202445 | 1                | E   |
| 726A88      | Software Testing   | 6       | A1N   | v202436-202444 | 2                | E   |
| 725G64      | Software Engineering                                     | 12      | G2F   | v202436-202503 | 1                | E   |
| 726G77      | Programming in C++                                       | 6       | G2F   | v202436-202503 | 1/2              | E   |
| 725G66      | Programming in C# and the NET Framework                  | 4       | G2F   | v202445-202503 | 3                | E   |
| 726G81      | Computer Security  | 6       | G2F   | v202445-202503 | 2                | E   |
| 729G87      | Interaction Programming                                  | 6       | G2F   | v202446-202503 | 3                | E   |

**Semester 6 (Spring 2025)**

| Course code | Course name                            | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|--|---------|-------|----------------|------------------|-----|
| 725G36      | Bachelor Thesis in Information Systems | 15      | G2E   | v202509-202518 | -                | C   |

*Specialisation: Management and organisational development*

| Course code | Course name  | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|--|---------|-------|----------------|------------------|-----|
| 726G76      | Research Methods in Social Sciences  | 7.5     | G2F   | v202504-202508 | -                | C   |
| 726G74      | Bachelor Thesis in Information Systems - Emphasis on Management and organizational development | 15      | G2E   | v202509-202518 | -                | C   |
| 725G89      | Systems Analyst as a Profession: man, technology and organisation                              | 7.5     | G2F   | v202519-202523 | -                | C   |

*Specialisation: System development*

| Course code | Course name  | Credits | Level | Weeks          | Timetable module | ECV |
|-------------|--|---------|-------|----------------|------------------|-----|
| 726G76      | Research Methods in Social Sciences                                      | 7.5     | G2F   | v202504-202508 | -                | C   |
| 726G75      | Bachelor Thesis in Information Systems - Emphasis on Systems development | 15      | G2E   | v202509-202518 | -                | C   |
| 725G89      | Systems Analyst as a Profession: man, technology and organisation        | 7.5     | G2F   | v202519-202523 | -                | C   |

ECV = Elective / Compulsory /Voluntary

\*Kursen läses över flera terminer