

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

Degree in English

Degree of Bachelor of Science with a major in Information Systems

Curriculum

Semester 1 (Autumn 2025)

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
725G96	Introduction to Information Systems – human, technology, organization	7.5	G1N	v202534-202539	2/4	C
725G92	Problem Solving and Programming	7.5	G1N	v202536-202603	1	C
726G37	IT-projects and Project Management	7.5	G1N	v202540-202545	2/4	C
726G35	Discrete Mathematics and Logic	7.5	G1N	v202546-202603	2/3/4	C

Semester 2 (Spring 2026)

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
725G90	Object Oriented Programming in Java	7.5	G1N	v202604-202613	1	C
726G83	Information Systems Development	7.5	G1N	v202604-202613	2/4	C
725G88	Qualitative Methods in Theory and Practice	7.5	G1N	v202614-202618	-	C
725G87	User Perspectives on Digital Design	7.5	G1N	v202619-202623	-	C

Semester 3 (Autumn 2026)

Specialisation: Management and organisational development

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
723G70	Management Accounting and Decision Support	7.5	G1N	v202634-202643	2/4	C
726G04	Organizational Development and Digitalization	7.5	G1N	v202634-202643	1/3	C
725G28	Databases and Data Modelling	7.5	G1N	v202644-202703	2/4	C
725G49	Enterprise Systems	7.5	G1N	v202644-202703	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	v202634-202643	2/4	C
725G97	Data Structures and Algorithms	7.5	G1N	v202636-202644	3	C
725G28	Databases and Data Modelling	7.5	G1N	v202644-202703	2/4	C
725G49	Enterprise Systems	7.5	G1N	v202644-202703	1/3	C

Semester 4 (Spring 2027)

Specialisation: Management and organisational development – Preliminary courses

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
725G86	The Digitalization of Society	7.5	G1N		-	C
725G98	Perspectives on Security and IT	7.5	G1N		-	C
726G01	Information Technology Law for Systems Analysts	7.5	G1N		-	C
726G30	Sustainable Agile Project Management	7.5	G1N		-	C

Specialisation: System development – Preliminary courses

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
725G86	The Digitalization of Society	7.5	G1N		-	C
725G98	Perspectives on Security and IT	7.5	G1N		-	C
726G01	Information Technology Law for Systems Analysts	7.5	G1N		-	C
726G30	Sustainable Agile Project Management	7.5	G1N		-	C

Semester 5 (Autumn 2027)

Specialisation: Management and organisational development – Preliminary courses

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
723G54	Business Ethics in a Globalized World	7.5	G1N		-	E
723G58	Entrepreneurship and Business Development	7.5	G1N		-	E
723G66	International Business	7.5	G2F		-	E
723G92	Organization Theory and Analysis	7.5	G1N		-	E
723G94	Leadership across Cultures	7.5	G1N		-	E
723G96	Human Resource Management	7.5	G1N		-	E
725G44	Practical Training - Information Technology and Business	15	G2F		-	E
726G31	Digital Innovation Strategy and Entrepreneurship	7.5	G2F		1	E
726G32	Business Intelligence and Data-driven Business Models	7.5	G2F		3/4	E
726G33	Co-creating Digital Solutions and Automation	7.5	G2F		-	E
729G85	Interaction Design and User Experience	9	G2F		1	E
732G50	Introductory Statistics	7.5	G1N		-	E
747A53	Information Technology Law, continuation course	7.5	A1N		-	E
772G11	Sustainable Business - Integrating sustainability in business practice	7.5	G2F		-	E

Specialisation: System development – Preliminary courses

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
725G44	Practical Training - Information Technology and Business	15	G2F	-		E
725G64	Software Engineering	12	G2F	1		E
725G66	Programming in C# and the NET Framework	4	G2F	3		E
726A88	Software Testing	6	A1N	2		E
726G02	Programming in Python as a Second Language	3	G2F	4		E
726G03	Data-centric Artificial Intelligence	6	G2F	1		E
726G77	Programming in C++	6	G2F	1/2		E
726G81	Computer Security	6	G2F	2		E
729G85	Interaction Design and User Experience	9	G2F	1		E
729G87	Interaction Programming	6	G2F	3		E
732G50	Introductory Statistics	7.5	G1N	-		E

Semester 6 (Spring 2028)

Preliminary courses

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

Specialisation: Management and organisational development – Preliminary courses

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
725G89	Systems Analyst as a Profession: Man, Technology and Organisation	7.5	G2F	-		C
726G74	Bachelor Thesis in Information Systems - Emphasis on Management and organizational development	15	G2E	-		C
726G76	Research Methods in Social Sciences	7.5	G2F	-		C

Specialisation: System development – Preliminary courses

Course code	Course name	Credits	Level	Weeks	Timetable module	ECV
725G89	Systems Analyst as a Profession: Man, Technology and Organisation	7.5	G2F	-	-	C
726G75	Bachelor Thesis in Information Systems - Emphasis on Systems Development	15	G2E	-	-	C
726G76	Research Methods in Social Sciences	7.5	G2F	-	-	C

ECV = Elective / Compulsory / Voluntary

*Kursen läses över flera terminer