

## **Bachelor's Programme in Statistics and Data Analysis**

Kandidatprogrammet i statistik och dataanalys  
180 credits

F7KSA

Valid from: 2023 Autumn semester

**Determined by**

Board of the Faculty of Arts and Sciences

**Date determined**

2006-08-30

**Revised by**

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

**Revision date**

2014-02-14; 2016-03-18; 2018-06-20; 2021-06-28; 2022-04-29; 2023-12-20

**Registration number**

LiU-2013-00295; LiU-2021-02849; LiU-2022-01923; LiU-2023-01783

**Offered first time**

Autumn semester 2014

**Offered for the last time**

**Replaced by**

## Entry requirements

General entry requirements for undergraduate studies  
and  
Social Studies, English and Mathematics corresponding to the level in Swedish  
upper secondary education (Samhällskunskap 1b or 1a1 and 1a2, Engelska 6,  
Matematik 3b or 3c)

## Degree in Swedish

Filosofie kandidatexamen med huvudområde Statistik

## Degree in English

Degree of Bachelor of Science with a major in Statistics

## Curriculum

### Semester 1 (Autumn 2023)

| Course code | Course name                               | Credits | Level | Weeks          | ECV |
|-------------|---|---------|-------|----------------|-----|
| 732G48      | Introductory Statistics and Data Analysis | 20      | G1N   | v202334-202403 | C   |
| 764G08      | Linear Algebra                            | 10      | G1N   | v202334-202403 | C   |

### Semester 2 (Spring 2024)

| Course code | Course name  | Credits | Level | Weeks          | ECV |
|-------------|--|---------|-------|----------------|-----|
| 732G49      | Introductory Statistics and Data Analysis: Inference | 7.5     | G1N   | v202404-202413 | C   |
| 764G07      | Mathematical Analysis                                | 15      | G1N   | v202404-202423 | C   |
| 732G33      | Programming in R                                     | 7.5     | G1N   | v202414-202423 | C   |

### Semester 3 (Autumn 2024)

| Course code | Course name                                       | Credits | Level | Weeks          | ECV |
|-------------|---|---------|-------|----------------|-----|
| 732G51      | Research Methods: Statistical sampling and design | 7.5     | G1F   | v202434-202443 | C   |
| 732G53      | Linear Models in Statistics 1                     | 7.5     | G1F   | v202434-202443 | C   |
| 732G52      | Time Series Analysis                              | 7.5     | G1F   | v202444-202503 | C   |
| 732G54      | Linear Models in Statistics 2                     | 7.5     | G1F   | v202444-202503 | C   |

## Semester 4 (Spring 2025)

| Course code | Course name                       | Credits | Level | Weeks          | ECV |
|-------------|-----------------------------------|---------|-------|----------------|-----|
| 732G55      | Introduction to SAS Programming   | 6       | G1F   | v202504-202512 | C   |
| 732G20      | Theory of Statistics              | 7.5     | G1F   | v202504-202517 | C   |
| 732G56      | Statistical Project               | 9       | G1F   | v202512-202523 | C   |
| 732G16      | Databases: Design and Programming | 7.5     | G1F   | v202514-202523 | C   |

## Semester 5 (Autumn 2025)

| Course code | Course name                          | Credits | Level | Weeks          | ECV |
|-------------|--------------------------------------|---------|-------|----------------|-----|
| 732G08      | Multivariate Methods                 | 7.5     | G2F   | v202534-202543 | E   |
| 732G57      | Machine Learning for Statisticians   | 7.5     | G2F   | v202534-202543 | E   |
| 732G34      | Statistical Methods for Complex Data | 7.5     | G2F   | v202544-202603 | E   |
| 732G43      | Bayesian Statistics                  | 7.5     | G2F   | v202544-202603 | E   |

## Semester 6 (Spring 2026)

### *Preliminary courses*

| Course code | Course name                     | Credits | Level | Weeks | ECV |
|-------------|---------------------------------|---------|-------|-------|-----|
| 732G47      | Bachelor's Thesis in Statistics | 15      | G2E   |       | C   |
| 764G03      | Multivariable calculus          | 7.5     | G1X   |       | E   |

ECV = Elective / Compulsory / Voluntary

\*Kursen läses över flera terminer