

- Master of Science in Statistics
- 1 year, full-time, 60 ECTS credits
- School of Economics and Management, Department of Statistics
- Lund Campus
- Application deadline: January 2025
- Programme start: August 2025

## COURSE OVERVIEW

Are you interested in statistical methods in data science? Then this is the course package for you. You will learn advanced analytical methods in machine learning and statistics, and how to analyse high-dimensional data. Today's job market for statisticians and data scientists requires knowledge of not only the classic statistical techniques, but also of modern programming and machine learning techniques. This course package meets exactly that demand. It consists of six courses covering programming in both R and Python, machine learning including deep learning, analysis of high-dimensional data, and analysis of textual data, and concludes with a thesis course where you write a Master's thesis focusing on a practical or methodological problem involving modern data science techniques.

## PROGRAMME MODULES/COURSES

### Semester 1:

- STAN48 Statistics: Programming for Data Science, 7.5 cr
- STAN51 Statistics: Machine Learning from a Regression Perspective, 7.5 cr.
- STAN52 Statistics: Advanced Machine Learning, 7.5 cr.
- STAN53 Statistics: High-dimensional Data Analysis, 7.5 cr.

### Semester 2:

- STAN47 Statistics: Deep Learning and AI Methods, 7.5 cr.
- STAN49 Statistics: Analysis of Textual Data, 7.5 cr.
- STAN40 Statistics: Thesis, 15 cr.

## CAREER PROSPECTS

After the courses, you will be well equipped for a career as statistician, data scientist or analyst, in private as well as public sector. You will find our alumni within vast range of industries, e.g. pharmaceutical industry (e.g. Astra-Zeneca), financial institutions (e.g. Danske Bank), market research industry (e.g. Verian Group), logistics (e.g. Maersk), government agencies (e.g. Statistics Sweden), and of course in academia.

*Accreditations of the School of Economics and Management.*



## ENTRY REQUIREMENTS AND HOW TO APPLY

### Entry requirements

A Bachelor's degree in statistics, or a Bachelor's degree in mathematics or computer science including at least 60 credits in statistics, or the equivalent.

### How to apply

1. **Apply online:** Go to [www.lunduniversity.lu.se/statistical-methods-data-science](http://www.lunduniversity.lu.se/statistical-methods-data-science). Click on "Apply" and follow the instructions for the online application at [www.universityadmissions.se](http://www.universityadmissions.se), the Swedish national application website. Rank the chosen programmes in order of preference.
2. **Submit your supporting documents:**
  - **General supporting documents:** Check what documents you need to submit (i.e. official transcripts, degree diploma/proof of expected graduation, translations, proof of English, passport) and how you need to submit them at [www.universityadmissions.se](http://www.universityadmissions.se).
  - **Programme-specific supporting documents:** When applying for the MiM, you must also submit a CV and a statement of purpose when you apply to this programme. See [www.lusem.lu.se/supporting-documents](http://www.lusem.lu.se/supporting-documents) for further instructions.

### Selection criteria/additional info

Seats are allocated according to: ECTS (HPAV): 100 %.

### Tuition fees

Tuition fee SEK 145 000 per year for non-EU/EEA citizens. No fee for EU/EEA citizens.

## ABOUT THE SCHOOL OF ECONOMICS AND MANAGEMENT

Lund University School of Economics and Management (LUSEM) is one of the leading business schools in the world and offers you a broad education with a competitive competence. LUSEM is triple accredited (2024), and a degree from LUSEM has a good reputation around the world. When graduating from LUSEM you are well equipped for the challenges of your dream career.

### More than a business school

We offer courses and programmes in six subject areas: economics, business administration, economic history, business law, informatics, and statistics. World-class research is conducted at the faculty's six departments and five research centers. At LUSEM you will learn to understand the world around you, develop it for the better and be able to make impact on the society in which you live. You will get both the theoretical knowledge for how to make a difference in society and how to actually make it happen.



### ABOUT LUND UNIVERSITY

Lund University was founded in 1666 and is repeatedly ranked among the world's top universities. The University has around 47 000 students and 8 800 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition.

Lund is considered one of the most popular study locations in Sweden. The University offers one of the broadest ranges of programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. The unique disciplinary

range encourages boundary-crossing collaborations both within academia and with wider society, creating great conditions for scientific breakthroughs and innovations. The University has a distinct international profile, with partner universities in about 70 countries.

Lund University has an annual turnover of EUR 938 million, of which two-thirds go to research in our nine faculties, enabling us to offer one of the strongest and broadest ranges of research in Scandinavia.

### CONTACT

**Course webpage:**

[www.lunduniversity.lu.se/statistical-methods-data-science](http://www.lunduniversity.lu.se/statistical-methods-data-science)

**Contact:**

[studievagledare@stat.lu.se](mailto:studievagledare@stat.lu.se)

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