Programme overview
The Master’s programme in Mathematical Statistics provides a broad spectrum of tools and methods for handling random phenomena occurring in scientific as well as industrial contexts. Within the programme you can specialise in many different areas for different purposes. You study at least 45 credits in mathematical statistics at Master’s level, and write a Master’s thesis of 30 credits. You can choose to take the remaining (at most) 45 credits in e.g. mathematics or numerical analysis. You can also choose courses in other subjects such as computer science, or, if you are aiming for a career in a specific applied field, courses in that field. Examples include courses in economics, molecular biology and bioinformatics. If you intend to proceed to a PhD you should take courses with a high degree of theory content, while if you are aiming for a career outside academia you should take courses that cover a wide range of statistical models and methods.

Programme modules/courses
COURSES AND NUMBER OF CREDITS: Stationary Stochastic Processes (7.5), Markov Processes (7.5), Mathematical Foundations of Probability (7.5), Time Series Analysis (7.5), Monte Carlo Methods for Stochastic Inference (7.5), Linear and Logistic Regression (7.5), Statistical Modelling of Extreme Values (7.5), Inference Theory (7.5) or Design of Experiments (7.5). Non-Linear Time Series Analysis (7.5), Spatial Statistics with Image Analysis (7.5), Valuation of Derivative Assets (7.5), Financial Statistics (7.5), Survival Analysis (7.5), Statistical Modelling of Multivariate Extreme Values (7.5) or other elective courses. Master’s degree thesis (30).

Career prospects
With a Master of Science in Mathematical Statistics you have great opportunities to form an exciting career in, for example, the pharmaceutical industry, biotechnology companies or the banking and finance sector. Statistical methods are also of great importance for logistics, quality assurance and development in industry, and organisations within the public sector.

Entry requirements and how to apply
ENTRY REQUIREMENTS
A Bachelor’s degree of at least 180 ECTS credits, or that the requirements for such a degree are fulfilled. It is also required that this degree contains courses of at least 90 ECTS credits, in total, in the following subjects: mathematics (at least 45 credits, including courses in multivariate calculus and linear algebra), mathematical statistics (at least 30 credits), and numerical analysis, scientific computing and/or computer science (at least 15 credits). English 6/English Course B. See www.lunduniversity.lu.se for details on English proficiency levels.

HOW TO APPLY
1. Apply online: Go to www.lunduniversity.lu.se/mathematical-statistics. Click on “Apply” and follow the instructions for the online application at the Swedish national application website www.universityadmissions.se. Rank

“I chose Lund University because it is one of the best universities in the field of Mathematics and Statistics, and rightly so. I was introduced to a variety of highly intriguing subjects, subjects that pertained to statistics in the field of finance, medicine, extreme events and more. We were given real time projects, whose difficulty level was fairly high and to be submitted on deadlines, but this helped us get ready for the projects and problems that await us in the real world. We worked on the latest and most widely used softwares in the industry these days. There was always a perfect blend of theoretical and practical knowledge. All professors had excellent knowledge and expertise in their respective field of study and were easily approachable. ”
Shilpy Madan from India
the chosen programmes in order of preference.

2. Submit your 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.

4. Pay the application fee (when applicable).

**SELECTION CRITERIA/ADDITIONAL INFORMATION**
Selection of students is based on grades on academic courses of relevance for the Master’s programme.

**TUITION FEES**
There are no tuition fees for EU/EEA citizens. For non-EU/EEA citizens the tuition fee for this programme is SEK 145,000 per year. For details on tuition fees, see www.lunduniversity.lu.se.

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**About Lund University**
Lund University was founded in 1666 and is repeatedly ranked among the world’s top 100 universities. The University has 41,000 students and 7,500 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 Sweden’s most attractive study destination. The University offers one of the broadest ranges of programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. The compact university campus encourages networking and creates the conditions for scientific breakthroughs and innovations. The University has a clear international profile, with partner universities in over 70 countries.

Funding of more than SEK 5 billion a year goes to research at eight faculties, which gives us one of Sweden’s strongest and broadest ranges of research activity. Over 30 of our research fields are world-leading, according to independent evaluations.

Two of the world’s leading materials research facilities are currently under construction in Lund: the MAX IV Laboratory, inaugurated in June 2016, is the leading synchrotron radiation facility in the world, and the European research facility ESS, which will house the world’s most powerful neutron source. The two facilities will be of decisive importance for future scientific and industrial development in both materials science and life science.

Learn more at [www.lunduniversity.lu.se](http://www.lunduniversity.lu.se)
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