Programme overview
The purpose of the Master’s programme in Mathematics is to give students advanced theoretical knowledge of mathematics together with practical skills to apply this knowledge both to mathematical problems and in applications of mathematics. A highly flexible structure that allows for individual adaptation, diversified curriculum, a high theoretical level, and an active research-oriented environment are some of the strongest features of the programme.

The Master’s Programme in Mathematics has two specialisations - Mathematics and Numerical Analysis. A separate Master’s Programme in Mathematical Statistics is available at the Centre of Mathematical Sciences. A vast variety of courses in all mathematical disciplines - pure and applied mathematics, numerical analysis and mathematical statistics - are available within the programme.

The programme was recently evaluated by a panel of mathematicians appointed by The Swedish Higher Education Authority and was ranked ‘Of highest quality’. (http://english.uk-ambetet.se/).

Programme modules/courses
The programme consists of two course modules – alternative compulsory courses and elective courses - comprising 90 credits and a thesis comprising 30 credits. The thesis can be done in mathematics or numerical analysis. The alternative compulsory courses (45 credits) must be chosen amongst courses at advanced level in mathematics or in numerical analysis, while the elective courses (45 credits) can be chosen freely.

The choice of courses within the programme is highly dependent on prior knowledge, subject of interest and career aspirations of each student. A student already determined to take a PhD degree might choose 90 credits of advanced courses in mathematics or numerical analysis in order to obtain a deep knowledge of the subject as a basis for the PhD. A student planning to work with applied mathematics directly after graduation can choose up to 45 credits, including some at basic level, in a different subject relevant for the applications of mathematics, for example in physics or economics.

Individual student counselling is available throughout the entire programme.

M A S T E R ’ S D E G R E E T H E S I S: The thesis comprises 30 credits and can be done on a topic of interest in pure or applied mathematics (code MATM01) or in numerical analysis and scientific computing (code NUMM11). The thesis can be done during the last semester of the programme or during the entire second year in parallel to other relevant courses within the programme.

The topic is chosen in cooperation with an advisor at the department and may be either of theoretical character or within an applied area together with an industrial partner.

Career prospects
After graduating from this programme you are qualified to enter a PhD programme in mathematics. You will also have sufficient skills in applying mathematics to seek employment in industry, with government agencies and in other organisations working with mathematical problems.

Entry requirements and how to apply
ENTRY REQUIREMENTS
A BSc with at least 90 ECTS credits in mathematics. 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/mathematics
Click on “Apply” and follow the instructions for the online application at the Swedish national application website www.universityadmissions.se. 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.
• Programme-specific supporting documents: When applying for this programme, you must also submit a statement of purpose and letters of recommendation with your application.

4. Pay the application fee (when applicable).

SELECTION CRITERIA/ADDITIONAL INFO
Selection of students is based on previous university/college studies and other merits such as letters of recommendation and statement of purpose.

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.

About the Centre for Mathematical Sciences
The Centre for Mathematical Sciences is part both of the Faculty of Science and of the Faculty of Engineering. The Centre consists of approximately 120 employees. We carry out research and teaching in mathematics, mathematical statistics and scientific computing. The personnel of the Centre can be clustered according to different non-disjoint criteria, e.g. according to title, faculty, subject or research groups. The three administrative divisions are: Mathematics (Faculty of Science), Mathematics and Numerical Analysis (Faculty of Engineering) and Mathematical Statistics.

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
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