Programme overview
Geomatics involves the acquisition, management and analysis of phenomena with a spatial reference. Spatial analysis finds applications in many areas, such as health, environment management, natural resources assessment, urban planning, geology, archaeology and agronomy. This programme aims to provide you with knowledge in spatial analysis focusing mainly environmental applications. Models and theories for understanding the Earth's climate and ecosystems are integrated with knowledge for collecting environmental information using remote sensing, storing the information in databases and theories behind GIS.

Programme modules/courses
Core courses in the programme are Geographical Information Systems 1 (15), Geographical Information Systems 2 (15), Spatial Analysis (7.5), Internet GIS (7.5), Satellite Remote Sensing (15), Algorithms and GIS (7.5), Geographical Databases (7.5) and Programming (15). For students that already have a strong background in this field, elective courses, e.g. Climate Change & Impact on Environment (15), Global Ecosystem Dynamics (15) and Greenhouse Gases and Biogeochemical Cycles (15) could be alternatives to the core courses. The programme ends with a Master’s degree project (30).

Career prospects
Graduates from the programme will be able to work as GIS and environmental specialists in public and private sectors within areas such as environmental monitoring, urban planning and development, natural resources and sustainability. The programme is also suitable for students interested in research careers.

Entry requirements and how to apply
ENTRY REQUIREMENTS
A Bachelor’s degree of at least 180 credits in Science or Engineering or the equivalent, within a specialisation of relevance to the study programme. English Level 6 (equivalent to IELTS 6.5, TOEFL 90). See www.lunduniversity.lu.se for details on English proficiency levels.

HOW TO APPLY
1. Apply online: Go to www.lunduniversity.lu.se/geomatics. Click on “Apply” and follow the instructions for the online application at 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.
   • Programme-specific supporting documents: When applying for this programme, you must also submit a ‘Summary Sheet’. See the programme webpage for details.

3. Pay the application fee (when applicable).
**SELECTION CRITERIA/ADDITIONAL INFORMATION**

The selection will be based on grades awarded for previous academic courses, particularly qualifying courses, as well as the statement of purpose and professional qualifications and/or other practical experience of relevance (from the applicant’s ‘Summary Sheet’).

**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. See www.lunduniversity.lu.se for details on tuition fees.

**About the Department of Earth and Ecosystem Sciences**

At our department, we are engaged in education and research spanning a wide field of study, ranging from the Earth’s oldest geological history to ongoing processes and changes in our landscape. We investigate the formation and composition of Earth, the development of life, the effects of recent glaciations on our landscape and how climate has changed over both short and long time scales.

Our work also concerns the climate of today and the future, the interactions of ecosystems with the atmosphere, as well as applied environmental problems such as polluted soils. Our diverse and cutting-edge research is well reflected in the courses and education programs that we offer, which means that our students are well prepared for the challenges of the labor market after graduation.

**About Lund University**

Lund University was founded in 1666 and is repeatedly ranked among the world’s top 100 universities. The University has 40,000 students and 7,600 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 the most popular study location in Sweden. Lund University offers one of the broadest ranges of programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. The University has a distinct international profile, with partner universities in around 70 countries.

Lund University has an annual turnover of SEK 8.5 billion, more than half of which is destined for research. Our eight faculties conduct strong research in many different areas, including over thirty research fields in which we are world-leading. Many scientific breakthroughs and pioneering innovations have originated from Lund University.

The world-leading research facilities MAX IV and ESS which are being established in Lund will be of great significance for research and industrial development within materials and life sciences. MAX IV is the world’s foremost synchrotron radiation facility and the ESS will be the most powerful neutron source in the world once it opens for research in 2023. Science Village Scandinavia is developing nearby and is destined to become a meeting place and a test environment for research, education and entrepreneurship.

Learn more at www.lunduniversity.lu.se
Ask questions and follow news at facebook.com/lunduniversity

**CONTACT**

Programme webpage
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