

- Master of Science in Geographical Information Science
- 2 years, full-time, 120 ECTS credits (half-time/50% option available as well)
- Department of Physical Geography and Ecosystem Science
- Joint programme with University of Twente, the Netherlands
- NOTE! Distance learning
- Application deadline: January 2021
- Programme start: August 2021

Programme overview

This is an Internet-based distance learning programme in which you learn how to analyse and model spatial phenomena, focusing on natural resources, using GIS (Geographical Information Systems) and remote sensing. The aim is to offer you a flexible and comprehensive training in GIS, remote sensing and environmental modelling. All courses are provided over the Internet, including text, audio and video lectures, email contact, forums and Skype correspondence with specialised academic staff. You can adopt the learning methods that work best for you and choose your own pace of study for any given semester. The course offers hands-on training using up-to-date software and affords the opportunity to achieve deep theoretical understanding, as well as excellent technical skills, of e.g. GIS, remote sensing, spatial programming, SDI, database management, cartography and environmental modelling. The programme runs for 22 months and is taught by world-class faculties in Sweden (Lund University) and the Netherlands (University of Twente).

Programme modules/courses

The programme starts with 1.5 semesters (45 credits) of compulsory courses: GIS (15 credits), Remote Sensing (10 credits), Natural Resource Management (15 credits), and GIS and Statistics (5 credits). This is followed by 35 credits of specialisation, where the student can choose between a large number of technical and applied courses. Examples of elective courses are: Databases, Climate Change, Systems Analysis, Open Source GIS, GIS and Tourism, EIA/SEA, Ecosystem Modelling, Python Programming, SDI, Food Security, Internet GIS, Hydrological Modelling, Carbon and Climate. The programme ends with two compulsory courses in Research Methods and Proposal Writing, plus a 30 credit Master's degree project (thesis).

A course calendar with the course structure and modules is available on the website, www.igeon.eu.

Career prospects

After completing the programme, you will have gained theoretical and practical knowledge about the planning, implementation and handling of GIS and remote sensing within diverse disciplines, focusing on natural resources. These skills are highly useful within all areas concerned with spatial phenomena, such as natural and social sciences, medicine, engineering, hydrology, agriculture, forestry, defence, global change and in spatial planning of local, regional and national systems.

Entry requirements and how to apply

ENTRY REQUIREMENTS

A Bachelor's degree of at least 180 credits or the equivalent. 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/gis. Click on "Apply" and follow the instructions for the online application instructions 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 'Summary Sheet'. See the programme webpage for details.

3. Pay the application fee (when applicable).

Alternatively, it is also possible to apply through our Dutch partner (University of Twente), at www.igeon.eu.





SELECTION CRITERIA/ADDITIONAL INFORMATION

The selection will be based on grades awarded for previous academic courses, the statement of purpose including how the applicant believes they meet the admission requirements for the programme, 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 115 000 per year. For details on tuition fees at Lund University, see www.lunduniversity.lu.se. For tuition fees when applying to our Dutch partner University of Twente, see www.igeon.eu.

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 more than 8 000 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. The University offers one of the broadest ranges of degree programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. Because of its wide disciplinary range, interdisciplinary collaborations and engagement with wider society, Lund University is particularly well equipped to meet complex societal challenges. With partner universities in around 70 countries, the University's profile is distinctly international.

Lund University has an annual turnover of more than EUR 830 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.

The establishment of the world-leading facilities MAX IV and ESS will have a major impact on future scientific and industrial development in both materials science and life science. MAX IV is the leading synchrotron radiation facility in the world, while the European research facility ESS will be the world's most powerful neutron source when it opens for research in 2023. Adjacent to these facilities, Science Village Scandinavia is also being developed into a meeting place and testing environment for research, education and entrepreneurship.

Learn more at www.lunduniversity.lu.se

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CONTACT

Programme webpages

www.lunduniversity.lu.se/gis

www.igeon.eu

Study Advisor

David Tenenbaum, lumagis@gis.lu.se