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 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 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 180 ECTS Bachelor’s degree is required and must be completed at the time of application. English proficiency requirements for nationals of countries where English is not a primary language of instruction can be found at www.igeon.eu/application/admission-requirements.

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 statement of purpose and letters of recommendation with your application.
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
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 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 like polluted soils. Our diverse and cutting-edge research is well reflected in the courses and education programs that we offer, which means that after graduating our students are well prepared for the challenges of the labor market.

About Lund University
Lund University was founded in 1666 and is repeatedly ranked among the world’s top 100 universities. The University has 42 000 students and 7 400 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 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 distinct international profile, with partner universities in over 70 countries.

Lund University has an annual turnover of SEK 8 billion, of which two-thirds go to research. Our research is characterised by both breadth and strength and, according to independent evaluations, over 30 of our research fields are world-leading.

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, which was inaugurated in June 2016, 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
Ask questions and follow news at facebook.com/lunduniversity

CONTACT
Programme webpages
www.lunduniversity.lu.se/gis
www.igeon.eu
Study Advisor
David Tenenbaum, lumagis@gis.lu.se