



LUND
UNIVERSITY

Master's Programme in Biology, Plant Science

LUND UNIVERSITY | SWEDEN

- Master of Science in Biology with specialisation in Plant Science
- 2 years, full-time, 120 ECTS credits
- Department of Biology
- Lund Campus
- Application deadline: January 2022
- Programme start: August 2022

PROGRAMME OVERVIEW

Plants use intricate systems for growth, development, transport and metabolism to cope with adverse environmental conditions, but also have considerable capacity to adapt genetically to both biotic and abiotic factors. An understanding of the mechanisms that underlie these features is of fundamental importance for all biological disciplines. This is the subject for you if you are interested in plant biology, evolution and biodiversity.

You will gain knowledge and understanding of how plants function at different levels of organisation, from the molecular to the eco-physiological level, as well as of the methodology used in plant biological work and in research into physiological, molecular and cell biological issues. You will learn about the mechanisms that are involved in the evolution of new plant species and the factors that control plant diversity and the distribution of plant species. You will come to understand the way in which mating systems and population structure influence gene flow and genetic diversity in plants. You will study how plants interact with other organisms and their ability to adapt to environmental change. You will be given a scientifically-based perspective to the conservation biology of plants and gain practical experience of ecological methodology. Field trips and laboratory work are integrated parts of many courses in this study programme.

Special features of the programme:

- Broad range of courses covering ecological and evolutionary topics related to plants, fungi and lichens
- Close connections to state-of-the-art research in an international environment
- Integration of theoretical analyses with field work and strong training of laboratory skills
- Freedom to create your own study programme and specialisation

PROGRAMME MODULES/COURSES

COMPULSORY COURSES: Plant Function, Plant Evolution and Adaptation, and a Master's degree project in Plant Science.

ELECTIVES: Plant Systematics and Diversity, Population and Community Ecology, Soil and Plant Ecology, Conservation Biology, Molecular Ecology and Evolution, Methods in Molecular Biology, Genetic Analysis, Bioinformatics and Sequence Analysis, and Processing and Analysis of Biological Data.

Most courses are full-time studies and you usually take only one course at a time. The courses are typically teaching-intensive, with lectures, seminars, excursions as well as theoretical and practical exercises. You are expected to spend about 40 hours per week on studies, self-studies included. Normally you take two courses of 15 credits per semester, i.e. a total of 60 credits per year.

CAREER PROSPECTS

The educational programme provides a foundation for continued studies at the doctoral level within the fields of plant biology, evolutionary botany, plant ecology, conservation biology, plant breeding and biotechnology, but also opens doors to employment within the public sector, forestry and agricultural organisations, ecological and conservation consultancy, plant breeding and education.

ENTRY REQUIREMENTS AND HOW TO APPLY

Entry requirements

A Bachelor's degree of at least 180 credits, of which 90 credits must be in science, including 5 credits in statistics and 60 credits in biology comprising cell biology, genetics, microbiology, ecology and botany, or the equivalent, or a Bachelor's degree of at least 180 credits, of which 90 credits must be in science, including 30 credits in chemistry and 45 credits in biology comprising cell biology, genetics, microbiology and molecular biology, or the equivalent. English Level 6.

How to apply

1. **Apply online:** Go to www.lunduniversity.lu.se/biology-plant-science. Click on "Apply" and follow the instructions for the online application at www.universityadmissions.se.



"Lab work is an important part of most courses. Some of them also include field work where you take samples and then work with them in the lab. In that way, you're able to apply the theory you've learned, which is really good. You focus on your own work here and the professor guides this. You have a lot of seminars where you first have to read and answer some questions. You then work together with the group to solve the questions. I find this very positive because it gives you some autonomy in your education."

Andrés Romero Bravo from Spain





the Swedish national application website. Rank 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.
 - **Programme-specific supporting documents:** When applying for this programme, you must also submit a 'Summary Sheet' with your application. See the programme webpage for details.
- 3. Pay the application fee (when applicable).**

Selection criteria/additional info

The selection will be based on grades awarded for previous academic courses, as well as the statement of purpose and qualifications from research/work of relevance (from the applicant's 'Summary Sheet').

Tuition fees

Tuition fee SEK 145 000 per year for non-EU/EEA citizens. No fee for EU/EEA citizens. See www.lunduniversity.lu.se for details on tuition fees

ABOUT THE DEPARTMENT OF BIOLOGY

We have outstanding competence in education and research, covering a large number of biological disciplines from molecular biology to large-scale ecology. Several of our research groups are world-leading in their topic and a large number of international

projects is coordinated by the department of Biology. As our education is integrated with the department's research, you will have researchers as teachers and get involved in ongoing projects during your studies. Our courses range from basic to Master's level. We offer around 50 advanced level courses as well as an extensive postgraduate programme.

ABOUT LUND UNIVERSITY

Lund University was founded in 1666 and is repeatedly ranked among the world's top 100 universities. The University has around 44 000 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 considered one of the most popular study locations 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 unique disciplinary range encourages boundary-crossing collaborations both within academia and with wider society, creating great conditions for scientific breakthroughs and innovations. The University has a distinct international profile, with partner universities in almost 70 countries.

Lund University has an annual turnover of more than EUR 880 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.

CONTACT

Programme webpage:
www.lunduniversity.lu.se/biol-ogy-plant-science

Study Advisors

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Learn more at www.lunduniversity.lu.se

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