



LUND
UNIVERSITY

MSc in Biology, Aquatic Ecology

LUND UNIVERSITY, SWEDEN

- Master of Science in Biology with specialisation in Aquatic Ecology
- 2 years, full-time, 120 ECTS credits
- Department of Biology
- Lund Campus
- Application deadline: January 2021
- Programme start: August 2021

Programme overview

This Master's programme provides knowledge on current theories and models of aquatic ecosystems, the relation between watershed, atmosphere, lakes and streams, interactions between humankind and aquatic ecosystems, and water management. Practical training in laboratory and field methodology is also emphasised. Some of the courses contain week-long excursions where practical field studies are conducted; from hypotheses and preparations, via sampling, analysing samples and data, and finally writing a report and performing an oral presentation.

Special features of the programme:

- Close collaboration with research groups on state-of-the-art scientific approaches to current environmental issues within aquatic ecology, including climate change
- Derivation of guidelines for sustainable fisheries management
- Hands-on laboratory training and risk assessment in ecotoxicological issues in aquatic environments
- Designing restoration projects in aquatic watersheds.

Programme modules/courses

COMPULSORY COURSES: Limnology and Marine Ecology – Concepts and Processes (15 ECTS credits), Limnology and Marine Ecology – Organism and Habitats (15 ECTS credits), Aquatic Ecology (15 ECTS credits), and a Master's degree project in Aquatic Ecology.

ELECTIVES: Ecotoxicology, Water Management, Modelling Biological Systems, 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

After graduation, many students find employment within the water management sector, e.g. as ecologists in municipal or county councils or in consulting agencies. In these positions, your assignments could include environmental monitoring, consulting on matters concerning water, and assessment of measures that may affect the water environment. The programme also provides a solid grounding for post-graduate studies.

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, botany and zoology, 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/biology-aquatic-ecology. 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.



"I really like that you have 8–10 weeks focused on one subject, so you can really dive into it. You don't have to do 101 things at a time and have ten exams at the end. I think the courses are all really well structured. All the professors I've had were very enthusiastic and really wanted us to learn something. They gave a lot of feedback, which I wasn't used to from Germany. The grades were not the main focus; it's more about doing it and learning it. I've really liked it."
Rike Weber from Germany





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 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

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 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 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 webpage

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