Programme overview
This structured two-year programme offers you the opportunity to learn about the universe and apply your knowledge of physics in a vibrant and fast developing area of science. The first semester is spent on core astronomy courses, including stellar structure and evolution and galactic dynamics. In the second semester, you will begin work on a 60 ECTS degree project under the supervision of internationally well-regarded professors, and this project continues over three semesters. You will also take four more courses broadening your knowledge of the most exciting areas of modern astrophysics such as exoplanets and the early universe.

Programme modules/courses

**ELECTIVES:** Astrobiology, High Energy Astrophysics, Introduction to Astrophysics, Laboratory Astrophysics, Observational Techniques and Instrumentation, Computational Astrophysics. For each course there is normally about 4 hours of lectures per week as well as additional seminars and workshops that are led by the teachers. During the autumn semester in the first year you will take two courses in parallel. Supervision for the thesis project is individual, but students receive at least two hours supervision per week during the whole project. In addition to that, you will be fully integrated into the life of the department and actively participate in weekly group meetings and scientific seminars.

Career prospects
Although many of our students go on to do a PhD in astronomy, we aim to teach skills that are also of broad use outside academia. To give an idea of the possibilities open to you, we can mention that former alumni work at Sony, the Swedish Defense Research Institute (FOI), as secondary school teachers and on developing the next generation of instruments to image the retina in the human eye. Naturally, we have many students that have gone on to do a PhD. Former Master’s students are doing or have done PhDs at the University of Cambridge, Heidelberg University and the European Southern Observatory.

Entry requirements and how to apply
**ENTRY REQUIREMENTS**
A BSc in physics or equivalent proficiency. English Level 6 (equivalent to IELTS 6.5, TOEFL 90). For details on English proficiency levels, see www.lunduniversity.lu.se.

**HOW TO APPLY**
1. Apply online: Go to www.lunduniversity.lu.se/astrophysics. 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 the MSc in Astrophysics, you must also submit a statement of purpose and preferably a letter of recommendation with your application.
3. Pay the application fee (when applicable).

“Something that’s really great here at my faculty is that the Master’s and PhD students work together on the same floor. Everybody gets their own corner to work in, with any equipment that you could possibly need. The teachers are wonderful, and have left me with nothing but good impressions, motivating and inspiring me throughout the process.”

Tryggvi Kristmar Tryggiason from Iceland
SELECTION CRITERIA/ADDITIONAL INFORMATION

Selection 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 145 000 per year. See www.lunduniversity.lu.se for details on tuition fees.

About the Department of Astronomy and Theoretical Physics

The Department of Astronomy and Theoretical Physics spans a very large range of research activities; theoretical particle physics, computational biology and biological physics, theoretical astrophysics, observational astronomy, research on atomic data, as well as instrument development. We have vibrant and active research groups in all areas. Of special relevance for the Master’s programme in astrophysics is the research, e.g., on black holes, X-ray binaries, Milky Way astronomy, the Gaia satellite, planet formation and studies of evolved giant stars.

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

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