Programme overview

What if satisfying your curiosity could become your job? At the Department of Physics in Lund, you can be curious and creative, and at the same time make a strategic choice for your career. Physicists in Lund study subjects including the smallest parts of matter, the interface between living cells and electronics, how to create a cleaner environment and how to cure cancer. At the same time, they are satisfying their curiosity. As a Master’s student you will become part of a vibrant research community engaged in experiments at major international research facilities and in state-of-the-art laboratories on site. Cutting-edge theoretical studies are also undertaken.

You begin your studies by taking a number of courses, some of them general, some more specialised. The programme concludes with a Master’s project, for which you spend a full year in a research group or outside the University – there are many exciting possibilities within the high-tech industry in the Lund region. You have a lot of freedom to tailor your own education, but we have also put together some strong specialisations: Analytical Physics, Combustion Physics, Mathematical Physics, Theoretical Physics, Nanophysics, Photonics and Lasers, Subatomic Physics and Synchrotron Radiation Physics.

Programme modules/courses

Physics 4: Introduction to Advanced Physics (30 credits), Master’s degree project at least 30 credits), electives (60 credits). For information on specialisations and elective courses, see www.fysik.lu.se/english/education/start-studying/masters-programme

Career prospects

Two international research institutes – MAX IV, a synchrotron radiation laboratory, and ESS, the European Spallation Source – make Lund a centre for, among other things, materials science and attract new entrepreneurs and research groups. The two institutes add to the already existing opportunities for you as a graduate of this Master’s programme. Areas in which graduates find employment include information and communication technology, manufacturing, space exploration, life sciences, medicine, pharmacy, energy production, the environment, electronics and materials science. MAX IV entered into operation in June 2016. ESS is currently under construction, with planned start of operations in 2023.

Entry requirements and how to apply

ENTRY REQUIREMENTS
A BA/BSc in physics, mathematics or similar, with 90 ECTS credits in physics and/or mathematics, including basic knowledge of quantum mechanics. English Level 6 (equivalent to IELTS 6.5, TOEFL 90). See www.lunduniversity.lu.se for details on English proficiency levels.

“Something really good about this programme is that you have a lot of freedom to choose your own courses. They really have a lot to of courses to choose between so you can take several different tracks.”

Fabian Motzfeld, from Germany
HOW TO APPLY

1. Apply online: Go to www.lunduniversity.lu.se/physics. 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 this programme, you must submit a statement of purpose and letters of recommendation with your application. We also encourage you to fill in our Summary Sheet that can be found on the programme web page.

3. Pay the application fee (when applicable).

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 145 000 per year. For details on tuition fees, see www.lunduniversity.lu.se.

About the Department of Physics

The Departments of Physics has over 300 researchers, teachers, technicians and administrators. We work to extend the understanding of physics and its applications, and to communicate our findings, and those of others, to new generations. We also teach the basics of physics to over one thousand students every year.

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 webpage
www.lunduniversity.lu.se/physics
Director of Studies
Tomas Brage, tomas.brage@fysik.lu.se
Study Advisors
studievagledning@fysik.lu.se
Mathieu Gisselbrecht, +46 46 222 8275
Johan Knutsson, +46 46 222 3848