Programme overview
The purpose of the programme is to give you a broad and fundamental knowledge in the field of physical chemistry, with an emphasis on the fields of surface and colloid chemistry, nanochemistry, and soft condensed matter. Students develop advanced laboratory skills, profound theoretical comprehension of fundamental mechanisms and good understanding of practical applications. Special emphasis is given to an unbroken line of understanding, from quantum mechanical description of atoms and molecules to complex supramolecular structures, as well as their industrial and biological applications.

All courses during the first year are compulsory, and provide you with a suitable base for future studies in these or related subjects, including a course in mathematical methods. In the second year you can, to a large extent, influence and plan your studies, with several different possibilities. It is mandatory to complete a Master’s degree project, corresponding to at least 30 ECTS credits.

Programme modules/courses
COMPULSORY COURSES AND NUMBER OF CREDITS: Surface and Colloid Chemistry – Advanced Course (15), Chemist’s Modelling Tools (15), Magnetic Resonance – Spectroscopy and Imaging (7.5), Statistical Thermodynamics and Molecular Simulation (7.5), Scattering Methods (7.5), Molecular Quantum Mechanics (7.5), Master’s degree project comprising at least 30 credits. ELECTIVES: 30 credits of courses.

Career prospects
When you graduate from the programme you will be highly skilled in the fields mentioned, and also suitably prepared for PhD studies in the main subjects.

Entry requirements and how to apply
ENTRY REQUIREMENTS
In order to be considered for this programme, you must have an undergraduate degree corresponding to a Bachelor of Science comprising at least 180 ECTS credits, including at least 30 ECTS credits of physical chemistry, alternatively at least 60 ECTS credits of physics, and at least 15 ECTS credits of mathematics. English Level 6 (equivalent to IELTS 6.5, TOEFL 90). Please see www.lunduniversity.lu.se for details on English proficiency levels.

HOW TO APPLY
1. Apply online: Go to www.lunduniversity.lu.se/organizing-molecular-matter. 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.
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.
3. Pay the application fee (when applicable).

SELECTION CRITERIA/ADDITIONAL INFO
Selection of students is based on grades on academic courses of relevance for the Master’s programme.

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 Chemistry
The Department of Chemistry at Lund University provides world-class education and research within a wide area of chemistry. The Department of Chemistry is situated at Kemicentrum, Scandinavia’s largest center for research and education in chemistry. It is a unique research environment close to several major research centers, research parks and industries.

The Department of Chemistry has a unique strength with undergraduate and postgraduate education in all areas of chemistry as we belong to both the Faculty of Science and the Faculty of Engineering (LTH).

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/organizing-molecular-matter
Study guidance
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