Advanced courses in

Cancer Biology, Stem Cell Biology and Neuroscience

FACULTY OF MEDICINE, LUND UNIVERSITY, SWEDEN

The advanced courses form an important basis for future recruitment of researchers to Lund University. Students may include these courses as a part of their MSc degrees in e.g. Biomedicine, Molecular Biology or Medicine. The courses can also bridge Master’s and research education by providing in-depth knowledge in the specific fields combined with hands-on experience in research labs. The courses do not require previous studies within the specific subject, but do require deep knowledge in cell biology and biomedical research.

Neuroscience (30 ECTS)
Lund University has a strong track record in the field of neuroscience, ranging from basic to clinical research and including pioneering research on neural stem cells and transplantations. Advanced Neuroscience is aimed at students with a BSc or equivalent in the field of biology/biomedicine/medicine and with a specific interest in neuroscience.

The course includes an introductory part with focus on research methodology as well as diseases such as Parkinson’s, Huntington’s and Alzheimer’s, stroke and epilepsy. During the following 17 weeks, students perform individual projects in research labs and actively participate in research seminars and journal clubs.

Both theoretical and practical parts of the course will bring students close to the research frontline. Advanced Neuroscience will thus provide students with an excellent basis for doctoral studies in the field of neuroscience.

CONTACT
Course webpage
www.lunduniversity.lu.se/advanced-neuroscience
Course Director
Maria Swanberg,
maria.swanberg@med.lu.se

Cancer Biology (30 ECTS)

This is a multidisciplinary course aimed at future cancer researchers. We enrol students from biology, engineering, and medicine to study together in authentic research environments. Our course prepares the student for doctoral studies within cancer research and related fields.

The course is taught by well-established scientists, oncologists, surgeons, geneticists, and pathologist with an extensive track record from teaching in higher education. Our teaching methods are interactive and most of the course is spent pursuing a personal research project allowing the students to actively participate in ongoing research activities in excellent stem cell science laboratories at Lund Stem Cell Centre at Lund University. In addition, the students will be introduced to the fundamental principles of stem cell biology, key technologies utilised in stem cell research, research ethics, as well as career pathways inside and outside academia.

We are looking for highly motivated students with a background in biology, biotechnology, and (bio)medicine who have a genuine interest in stem cell biology and the ambition to pursue a PhD in this field. Our graduates will be well prepared for future doctoral studies and uniquely positioned to develop successful careers within stem cell biology or related fields.

CONTACT
Course webpage
www.lunduniversity.lu.se/advanced-cancer-biology
Course Director
David Gisselsson Nord,david.gisselsson_nord@med.lu.se

Cancer Biology (30 ECTS)
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

HOW TO APPLY
1. Apply online: Go to the course webpage (see links on previous page). 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 with your application (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 advanced courses you must also submit a personal motivation letter with your application. An interview will also be required. Please see the programme page for detailed information/instructions.
3. Pay the application fee (when applicable).

About the Faculty of Medicine
The Faculty of Medicine is one of eight faculties at Lund University and offers a wealth of research, postgraduate and educational programmes in medicine, public health, biomedicine and nursing to name a few.

The Faculty encompasses 2800 full-time undergraduate students enrolled in 8 degree programmes, as well as 1100 postgraduate students and 1800 employees. Research spans across a broad area from basic experimental research to applied research, in order to answer questions related to clinical practice, the health sciences and society.

MORE INFORMATION
For updated information about entry requirements, how to apply, tuition fees and more, please refer to the course webpages. You can find links to the advanced courses at www.lunduniversity.lu.se/medicine