



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Elite Master's Programme: Human Biology

Ludwig-Maximilians-Universität München • München



Overview

Degree	Master of Science
Course location	München
In cooperation with	Elite Network of Bavaria
Teaching language	<ul style="list-style-type: none">English
Languages	Courses are held in English (100%).
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	28 February for the following winter semester For further information, please check the programme website http://www.mhb.lmu.de .
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>Supported by the Elite Network of Bavaria, the outstanding Faculties of Biology and Medicine at LMU offer a first-rate programme leading to a Master of Science in Human Biology. Elite Master's Programme: Human Biology – Principles of Health and Disease is an interdisciplinary, research- and competency-oriented programme that provides a deep understanding of how health and disease work.</p> <p>The Elite Master's Programme: Human Biology – Principles of Health and Disease is taught in English to a maximum of 30 highly motivated and engaged students. It offers a state-of-the-art education at a modern research location in a wide variety of biomedical core subjects, such as “Cell Biology, Stem Cells and Epigenetics”, “Molecular Microbiology and Infection Biology”,</p>

“Molecular Oncology”, “Neurosciences” and “Cardiovascular and Lung Research”. The curriculum offers numerous compulsory or elective modules and transferable-skill courses. The students will be educated and supported by a **mentoring programme** with excellent, experienced and internationally-known professors in order to become outstanding researchers.

In addition to the Faculties of Biology and Medicine at LMU, students will have the possibility to carry out a research project with one of our numerous **collaboration partners** at home and abroad (including both research institutes and industry).

Course Details

Course organisation	<p>First Semester – Basic Training</p> <p>The first semester of the Master’s programme aims to enlarge and deepen existing know-how gained from the previously completed Bachelor’s programme. After the first semester, the students will be prepared with the basic practical skills for the more specialised courses in the main topic areas. Throughout the first semester, the students will also have opportunities to practice skills such as in giving presentations, teamwork and intercultural sensitivity.</p> <p>Second and Third Semesters – Advanced Training on the Main Topics</p> <p>In the following semesters, students may choose their priority topics. The focus in the second semester is on the topics “Cell Biology, Stem Cells and Epigenetics” and “Molecular Microbiology and Infection Biology”. The emphasis in the third semester is on the topics “Molecular Oncology”, “Neurosciences” and “Cardiovascular and Lung Research”. Each topic consists of a lecture, a seminar, a topic-specific practical methods course and an eight-week long research practical course. The research practical courses can also be completed within the industry or at our collaborative partner institutes in Munich or abroad. Speakers are frequently invited to hold talks during this part of the programme, giving students an opportunity to network and make contact with potential future employers.</p> <p>Through additional, interdisciplinary courses during the second and third semesters, students will have the possibility to deepen their expert knowledge by choosing courses based on their interests. Within the interdisciplinary courses, students will complete a course at the Munich Center for Ethics. In transferable skills courses, students will acquire cross-curricular vocational and social abilities, such as presentation skills, time management, self-reflection, team-work, conflict management, and leadership ability.</p> <p>Fourth Semester – Master's Module</p> <p>The Master’s programme culminates in a 24-week period devoted to the research, writing and defence of a Master’s thesis. Through their Master’s theses, students prove their skills in conducting independent and responsible research.</p>
A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none"> ● Training in intercultural skills ● Courses are led with foreign partners ● International guest lecturers ● Projects with partners in Germany and abroad
Integrated internships	The two required research internships can also be completed in industry or at our cooperation partners in Munich or abroad.
Special promotion / funding of the programme	<ul style="list-style-type: none"> ● Other (e.g. state level)

Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	124 EUR per semester

Costs of living Here's a basic outline of what you should budget for monthly living costs in Munich:

- Rooms in private housing including utilities: 500 to 800 EUR
- Rooms in university housing: minimum 300 EUR including utilities
- Health insurance: 120 EUR
- Meals: 250 to 300 EUR
- Mobile phone: 15 to 30 EUR
- Public transportation: 29 EUR for the discounted "D-Ticket" ("Deutschlandticket") for students, valid all over Germany (no ICE/IC trains)

And there's good news! With a valid student identity card, you'll have access to steep price reductions for public transportation and Munich's many cultural events (like theatre, concerts, museums, and more), as well as at the many on-campus student cafeterias and cafés.

Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	<p>There is no financial aid system offered by LMU Munich.</p> <p>Students can apply for different scholarships, that are competitive funding opportunities: e.g. Deutschlandstipendium, SIST LMU Study scholarship (only international students), or the SIST LMU Study completion scholarship (only international students).</p> <p>Please visit the following link for further information: Scholarships – LMU Munich</p>

Requirements / Registration

Academic admission requirements	<ul style="list-style-type: none"> • You have successfully completed a Bachelor's degree programme with at least 180 ECTS credits or equivalent in Biology, Human Biology or a related subject (e.g., Biomedical Science, Bioinformatics, Chemistry, Biochemistry, Medicine, Physics, or Biophysics). If you have not yet completed a Bachelor's programme in one of the above-mentioned subjects, you should expect to do so within the next months. • Your Bachelor's curriculum should include a final research project (Bachelor's thesis) with a written thesis credited with at least 10 ECTS credits. If your Bachelor's programme does not require a thesis, you are still eligible to apply if you have completed or will complete an equivalent course or internship. A course or an internship will be considered as equivalent, if it concerns a long-term research project (of at least eight weeks) combined with a written report according to good scientific writing standards. The project details of the equivalent course or internship should be described in the online application form.
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Language requirements	Proficiency in English: equal to a B2 level, as defined by the Common European Framework of Reference for Languages (CEFR), or proof of equivalent proficiency in English
Application deadline	28 February for the following winter semester For further information, please check the programme website http://www.mhb.lmu.de .
Submit application to	For the online application tool, please visit: http://www.mhb.lmu.de

Services

Possibility of finding part-time employment	Part-time jobs are offered in the various working groups.
Accommodation	<p>The International Office helps visiting academics, PhD students, and postdocs who are travelling to Munich for a set period of time to find accommodation.</p> <p>For further information, please visit the following link: https://www.lmu.de/en/study/important-contacts/international-office/index.html</p> <p>Rooms in shared flats are popular on the private market and reasonably priced at 400-600 EUR per month.</p>
Career advisory service	<p>The Elite Master's Programme: Human Biology – Principles of Health and Disease is accompanied by a comprehensive mentoring programme. From enrolment until graduation, students will be supported by several people, depending on their specific needs.</p> <p>Each student will be assigned a professor as a mentor who will foster the development of both the personal and individual scientific profile. Professors involved in this Master's programme are at the cutting-edge of their respective fields and have an international profile. During regular conversations between student and mentor, mentors will support students' scientific and personal career development.</p> <p>The Study Dean, the Student Council, the Examination Office and the Study Coordinator and the Career Service from LMU "Student and Arbeitsmarkt" also provide valuable assistance to students during their studies.</p>
Support for international students and doctoral candidates	<ul style="list-style-type: none"> • Buddy programme • Specialist counselling



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Zeynep Koçberber
Master of Science

The state-of-the-art education at the HighTechCampus of the LMU Munich provided me with theoretical and practical training. This Master's programme offers various course rotations that helped me discover the fields I am interested in. Being part of the Bavarian Elite Network, the Master's offers soft skills courses and mentoring. I always feel supported by my professors, mentors, coordinators and colleagues. I am glad that I had the chance to study at LMU. This wouldn't be possible without DAAD.

Our Partners



Elite Master's Programme in Human Biology Principles of Health and Disease

The film gives an impression of how students describe their own study programme.

» more:
<https://www.youtube.com/watch?v=2ep7G4r2Lew>

– Ludwig-Maximilians-Universität München –



LMU Biocenter

© Carolin Bleese LMU Biocenter

LMU Munich is recognised as one of the top-ranked universities in Europe. Research and teaching at the university's 18 faculties are committed to the highest international standards of excellence. Students can choose from over 200 degree programmes ranging from the humanities and social sciences to economics and law as well as medicine and natural sciences. A growing number of Master's and doctoral programmes are taught in English.

LMU Munich forms part of a unique network of research institutions, foundations, and corporations in and around the city. Its campuses and a lively international student community constitute an integral part of the urban landscape. Home to approximately 1.5 million people, Munich is not only an important hub for higher education, research, technology, and the media. With its renowned museums, galleries, theatres, and festivals, the capital of Bavaria also ranks among the major European cultural centres. Its proximity to the surrounding lakes and the Bavarian Alps adds to Munich's inimitable appeal.

Together, the Faculty of Biology and the Faculty of Medicine of LMU represent a **thriving research network**. Biologists and medical doctors at LMU work together successfully on numerous important international and interdisciplinary projects, supported research clusters and programmes. Their outstanding research output is internationally recognised, and it gives significant impulse to the basic research in biomedical sciences.

The successful research is confirmed by a number of international rankings, including the **Times Higher Education Ranking (2023)**, in which LMU is ranked 33rd worldwide in the field of biological research.



University location

The Elite Master's Programme: Human Biology – Principles of Health and Disease is characterised by excellent facilities for contemporary research in Munich and just outside of Munich at the modern **High Tech Campus in Martinsried**, where the main part of the programme will be held. At the High Tech Campus, next to the Faculty of Biology (**Biocenter**) and the Faculty of Medicine (**Biomedical Center** and the **University Hospital**), further high-profile institutions are situated. These are the **Max-Planck-Institute of Biological Intelligence and Neurobiology**, the Helmholtz Zentrum Munich (**Institute of Epigenetics and Stem Cells**, Comprehensive Pneumology Center), the **Gen Center** and the Research Center for Molecular Biosystems, the **Institute for Stroke and Dementia Research** and the **Institute for Medical Informatics, Biometry and Epidemiology (IBE)**. In parallel, the knowledge of these institutes acquires feeds into real-world biotechnological and medical applications, for example, through start-up companies that are also based at the HighTechCampus. For example, the "**Fördergesellschaft IZB mbH**", is home to over 60 biotech companies with over 650 employees.

Further significant institutes of the Faculty of Medicine – which are also involved in the elite Master's programme – are situated at the Medical Campus in **downtown Munich**. They include: the **Institute for Cardiovascular Prevention (IPEK)**, the Max von Pettkofer Institute and the **Institute of Pathology** and the **Walther Straub Institute of Pharmacology and Toxicology**

Another unique feature of Munich is that it is the home of all six types of **German Centers for Health Research** established by the German Federal Ministry for Education and Research (BMBF). Their translational research topics focus on a variety of diseases, including cancer and diabetes as well as cardiovascular, lung, infectious and neurodegenerative disorders. The Faculty of Medicine is involved in the research of all these centres. All five topics of the current elite Master's programme are represented within the focus areas of the Centers for Health Research.

The existing cooperative network with all these institutions provides our students with a unique, rich and modern research environment.

Contact

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🌐 Course website: <https://www.mhb.uni-muenchen.de>

📘 <https://de-de.facebook.com/lmu.muenchen/>

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Disclaimer

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