



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Molecular and Cellular Biology (MSc)

Ludwig-Maximilians-Universität München • München



## Overview

Degree	Master of Science
Course location	München
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
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 our programme website.
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No

### Description/content

The Faculty of Biology of the LMU Munich offers a comprehensive two-year Master of Science programme in **Molecular and Cellular Biology** for graduates with a background in biology (BSc in Biology or equivalent). Based on both fundamental research and applied sciences, molecular and cellular biology contribute enormously to the decryption of molecular processes, and to the development and discovery of novel drugs, energy sources or enzymes for industrial applications. The Master's programme in **Molecular and Cellular Biology** at the **LMU Biocenter** links modern molecular methods to a large number of disciplines and is oriented towards highly motivated and globally diverse next-generation researchers with a strong interest in **molecular and cellular mechanisms**. The programme is taught in English, and it offers state-of-the-art education in a variety of topics such as **Cell Biology, Genetics, Human Biology and Genomics, and Microbiology**. Our aim is to offer our students a comprehensive preparation for meeting future challenges in science-related professional careers within the field of molecular and cellular biology.

Based on topic related modules, the curriculum of the Master's programme in Molecular and

Cellular Biology includes lectures, seminars, and practical courses, with a **strong emphasis on learning in the context of ongoing research projects**. The first semester of the Master's programme aims at deepening existing expertise gained from the previously completed Bachelor's programme. In the following semesters, students can **individually compose modules according to their goals and interests**, either aiming for exposure to a wide variety of fields or on focusing in-depth on a particular subject.

#### Major topics

- Cell Biology
- Genetics
- Human Biology and Genomics
- Microbiology

The **Faculty of Biology** of the LMU Munich is made up of internationally recognised researchers and award-winning instructors. The faculty provides excellent facilities for contemporary research and studies in the modern "Biocenter" that is part of the **HighTechCampus of the LMU Munich**. High-profile institutions are situated in close proximity, including the **Max Planck Institutes for Biochemistry and Neuroscience**, the **German Research Center for Environmental Health**, the Gene Center, the **Faculty for Chemistry and Pharmaceutical Science**, and the **Biomedical Center**. The existing cooperative network with these institutions provides students with excellent teaching resources and a rich and unique research environment.

The **website of the Master of Science** programme in Molecular and Cellular Biology is the best way to find out more about the programme and to gain an overview of current research areas: <http://www.mcb.bio.lmu.de>

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## Course Details

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### Course organisation

The prescribed period of study is **four semesters**, including a final Master's thesis. Requiring a total of **120 ECTS credits**, the programme is based on acquiring approximately **30 ECTS credits per semester**. The curriculum of the Master's programme is based on a modular system consisting of topically related fields of research, including lectures, seminars and practical courses, with a strong emphasis on learning in the context of ongoing research projects. Modules can be individually composed according to each student's goals and interests.

**First semester – Basic training** The first semester of the Master's programme aims to enlarge and deepen existing know-how gained in the previously completed Bachelor's programme. During the first two months of the programme, students will participate in "**Lab Methods in Molecular and Cellular Biology**" and "**Bioinformatics and Data Analysis**", which are mandatory courses. Moreover, students can select up to two additional fields of study.

**Second and third semester – Specialisation** In the second semester, students can **deepen their knowledge** in the fields of study of their first semester or select additional topics. Mandatory courses include lectures, seminars, practical courses and practical research courses. In the third semester, students attend two topically linked modules, namely "Special Methods in Molecular and Cellular Biology" and a "**Special Research Module**".

**Fourth semester – Master module** The Master's programme culminates in a 24-week period devoted to a research project, combined with the writing and defence of a Master's thesis. Through their **Master's thesis**, students prove their skills in **conducting independent and responsible research**. Additionally, the final module includes additional courses such as a research seminar and colloquia.

### A Diploma supplement will be issued

Yes

### International elements

- International guest lecturers
- Projects with partners in Germany and abroad
- Training in intercultural skills

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	85 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: discounted Deutschland-Ticket for students (currently 29 EUR), valid all over Germany (no ICE/IC trains)

And there's good news! With a valid student identity card, you might have access to price reductions for public transportation and Munich's 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
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### Description of the above-mentioned funding opportunities within the university

There is no financial aid system offered by LMU Munich.

Students can apply for different scholarships, that are competitive funding opportunities: e.g. Deutschlandstipendium, SIST LMU Study scholarship (only international students), SIST LMU Study completion scholarship (only international students).

Please visit the following link for further information:

[Scholarships - LMU Munich](#)

## Requirements / Registration

### Academic admission requirements

- You have successfully completed or will complete in the next months a **three-year Bachelor's degree** with a total of **at least 180 ECTS points** in biology or a related subject, e.g., bioinformatics, (bio)chemistry, or (bio)physics, biotechnology.
- Your Bachelor's curriculum should include a **final research project (Bachelor's thesis)** with a written thesis credited with **at least 10 ECTS points**. 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 full time) combined with a written report according to good scientific writing standards. The project details of the

equivalent course or internship should be described on the online application form.

- **A transcript of records** from your Bachelor's degree that indicates your grade point average is required. If you are currently a Bachelor's student, you must provide a recent transcript of records with a preliminary average grade.

<b>Language requirements</b>	<b>Proficiency in English:</b> equal to a B2 level, as defined by the Common European Framework of Reference for Languages (CEFR), or proof of equivalent proficiency in English.
<b>Application deadline</b>	28 February for the following winter semester. For further information, please check our programme website.
<b>Submit application to</b>	The link to the online application can be found here: <a href="http://www.mcb.bio.lmu.de">http://www.mcb.bio.lmu.de</a>

## Services

<b>Possibility of finding part-time employment</b>	Part-time jobs are offered in the various working groups.
<b>Accommodation</b>	For further information, please visit the following link:  <a href="https://www.mcb.bio.lmu.de/student-life/accommodations1/index.html">https://www.mcb.bio.lmu.de/student-life/accommodations1/index.html</a>
<b>Career advisory service</b>	<p>The <b>faculty offers specific mentoring</b> and advice from different perspectives: <b>professors and teaching staff, coordination office, and alumni</b>. Special fairs, career talks, and events for future job perspectives are regularly organised.</p> <p>In addition to the faculty, the career service of the LMU Munich, "Student und Arbeitsmarkt", offers a programme that accompanies students' studies. Here students gain professional orientation, additional qualifications and practical experience. They can increase their job prospects and prepare to work both in subject-related and non-subject-related professions. "Student und Arbeitsmarkt" carries out projects to improve the job prospects of graduates as well as contacts between the university and the employment market.</p>
<b>Support for international students and doctoral candidates</b>	<ul style="list-style-type: none"><li>• Specialist counselling</li></ul>



## Ludwig-Maximilians-Universität München

The film gives an impression of what it is like to study, work and explore the world of research at LMU.

» more:

[https://www.youtube.com/watch?time\\_continue=1&v=ZtptUpHEMQE&feature=emb\\_logo](https://www.youtube.com/watch?time_continue=1&v=ZtptUpHEMQE&feature=emb_logo)

# – 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. 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 and first in Germany.

[http://www.en.uni-muenchen.de/about\\_lmu/index.html](http://www.en.uni-muenchen.de/about_lmu/index.html)



## University location

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.

## Contact

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

📺 <http://www.youtube.com/c/LMUmunich>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://www.gate-germany.de)

## Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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