



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



MSc Physics

Ludwig-Maximilians-Universität München • München

Overview

Degree	Master of Science in Physics
Teaching language	<ul style="list-style-type: none">English
Languages	English
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	Applications must be submitted by 15 July for the upcoming winter semester and by 15 January for the upcoming summer semester.
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The primary goal of the Physics Master's programme at LMU is to impart expertise in current research topics on the basis of a deeper physical understanding. Students will be trained on research methods, strategic planning and critical evaluation of scientific results. The ability to think physically and to proceed methodically in both theory and practice are developed during the two-year course of study. The programme includes lectures, exercises, seminars, lab courses and research. Building on the knowledge gained in the first two semesters, these abilities will be strengthened during the one-year research phase in the framework of the Master's thesis.</p> <p>Courses can be elected from the following research areas:</p> <ul style="list-style-type: none">• Astronomy and Astrophysics, Cosmology• Biophysics, Molecular Biophysics, Statistical Physics• Solid State Physics, Nanophysics• Elementary Particle Physics• Laser Optics and Quantum Optics• Atmospheric Physics, Meteorology• Medical Physics• Theoretical and Mathematical Physics• Artificial Intelligence in Physics <p>Depending on the elected courses, an additional certificate in the following specialisations can be obtained: Biophysics, Medical Physics, Astrophysics, Atmospheric Physics or Artificial Intelligence in Physics.</p>

Ludwig-Maximilians-Universität (LMU) is a [worldwide highly ranked university](#), one of the leading universities in Germany, and part of the German Universities Excellence Initiative. It looks back on a history of over 550 years. Several Nobel laureates, Leibniz prize winners, ERC grand holders and Humboldt professorships have been affiliated with LMU Faculty of Physics. Students of the Physics Master's programme get the possibility to learn and work closely with worldwide recognised researchers with a strong international network and do state-of-the-art research.

LMU forms an integral part of the exceptionally broad-based network of research institutions, universities, foundations, and corporations based in Munich. The city's other research institutions, including the Technische Universität München, the Max Planck Society and the Fraunhofer Society, as well as global enterprises and a vibrant start-up scene are closely intertwined with LMU.

All this builds the framework for an outstanding education in physics and prepares the graduates of the Physics Master's programme at LMU for international careers in academics and industry.

Course Details

Course organisation	The curriculum for the MSc Physics comprises four semesters. In the first and second semesters, students take compulsory courses in advanced experimental and theoretical physics as well as elective courses from the various research areas of the faculty. The one-year Master's project (research phase and Master's thesis) takes place in the third and fourth semesters.
International elements	<ul style="list-style-type: none"> • Integrated study abroad unit(s)
Integrated study abroad unit(s)	If desired, a part of the curriculum can be studied at one of LMU's numerous partner universities abroad. Further information can be found here .
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Currently about 124 EUR per semester (The fee amount can change; please check here .)
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	Funding opportunities can be found here .

Requirements / Registration

Academic admission requirements

The application for the MSc Physics requires a first professional university degree or an equivalent degree from Germany or abroad in one of the following subject areas: physics, astrophysics or meteorology, or in another mathematical-scientific subject area.

Further information on the application process can be found [here](#).

Language requirements

No proof of English or German is needed. B2 level in English is recommended.

Application deadline

Applications must be submitted by 15 July for the upcoming winter semester and by 15 January for the upcoming summer semester.

Submit application to

All applicants must apply to the Faculty of Physics to take part in the aptitude procedure.

In addition, applicants without a German university entrance qualification must apply at the LMU International Office for admission to the university.

Further information can be found [here](#).

Services

Accommodation

A helpful website for searching accommodation is provided by the [Munich Student Union](#).

Career advisory service

LMU students, doctoral candidates and graduates can make use of the [LMU Career Network](#), which them the opportunity to get a head start on their careers.

Contact

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🌐 Course website: <https://www.physik.lmu.de/en/studies/study-programs/msc-physics/index.html>

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

📷 <https://www.instagram.com/physik.lmu/>

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