



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Molecular Medicine (Master of Science)

University of Tübingen • Tübingen

### Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	<p>Courses are held in English (100%). Participants can choose to write the Master's thesis in English or German.</p> <p>German courses are available at the university's House of Languages, including "Early Bird" and "Evening Classes" for beginners, specially designed for international Master's and PhD students. The full German course programme is available at: <a href="http://www.uni-tuebingen.de/en/1056">www.uni-tuebingen.de/en/1056</a>.</p>
Programme duration	2 semesters
Beginning	Winter semester
Additional information on beginning, duration and mode of study	<p>General information concerning your arrival:</p> <p>If your course of study is due to start in October, you must have enrolled by the enrolment deadline. Enrolling allows you to complete module registration and start your course of study in person. Enrolment usually takes two weeks from the time that the University of Tübingen receives your application. Your student ID card is usually sent within two weeks of enrolment but can take up to four weeks in August and September.</p> <p>Please register in good time and plan your physical arrival so that you can attend the information events (from the first of October) in person. Introductory events and registration for classes take place before the official start of lectures. You may have to present your certificate of enrolment or student ID card for these.</p> <p>Therefore, you should enrol as early as possible.</p>
Application deadline	All applicants: 15 April for the following winter semester
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	Approx. 1,500 EUR per semester for students from non-EU countries
Combined Master's degree / PhD programme	No
Joint degree / double degree	No

**Description/content**

The innovative Master's programme in Molecular Medicine is characterised by interdisciplinarity, practice orientation, and internationality, with the ambition to qualify future excellent scientists for medical research. A particular strength of the Faculty of Medicine at the University of Tübingen is research in the prominent focus areas of neurosciences, immunology, oncology, and infection biology. Training in these focus areas (each student chooses two specialised fields out of four) is offered by experts in one of these disciplines.

**Immunology:** exploring the specialist field of immunology will allow students to gain a sound knowledge of the complex processes involved in the regulation of cellular and immunological processes in both humans and animals. The immunological processes are thus examined in association with disease-induced malfunctions, for example, in the case of immunity defects or in tumour immunology. The lectures in the series "Advanced Immunology" cover the detailed mechanisms of the immune system, including an examination of the recent discoveries made in cellular and molecular immunology. The main lecture comprises the evolution of immune systems, therapeutic antibodies, computational immunobiology, antigen processing, cellular communication, negative and positive regulatory mechanisms in immunity, interaction between immune systems, and pathogens and pathomechanisms.

**Infection Biology:** viral infections, the threat of pandemics, and the emergence of antibiotic resistance have made clear the enormity of the unmet medical needs in infectious diseases. In Tübingen, special emphasis is currently being placed on issues such as the development of new antibiotics, malaria, and viral oncogenesis. The Departments of Medical Microbiology, Virology, and Tropical Medicine meet this need by harnessing the current explosion of new information about the basic biology of pathogens and host responses in order to develop novel therapeutics to combat serious infections. The main lecture series in this area covers molecular mechanisms related to bacterial, viral, and parasite pathogenesis as well as experimental strategies to explore them in the area of major topics in the field of infectious diseases.

**Oncology:** cancer is a frequently occurring, complex disease with an increasing incidence and a high socio-economic impact. Both the lecture on Advanced Oncology and the other courses in this area are intended to provide further knowledge on the molecular basis of tumour development and molecular approaches to pathology and diagnostics as well as molecular strategies in cancer therapy. Based on the topics to be addressed, students will acquire a solid understanding of the state of the art in molecular and translational oncology with respect to molecular mechanisms of cancer development, molecular pathology and diagnostics, and molecular strategies in cancer therapies.

**Neurosciences:** the scope of neuroscience has expanded to include different approaches used to study the molecular structure of the nervous system, as well as neurological disorders. The main lecture series in this area places considerable emphasis on the molecular and cellular pathomechanisms of the most common dementias and other neurodegenerative disorders, especially Alzheimer's and Parkinson's diseases.

## Course Details

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**Course organisation**

The Master's programme lasts one academic year (two semesters) and encompasses a total of 60 ECTS. The one-year curriculum is divided into two main parts, the first concentrating on deepening knowledge and advanced laboratory research training, the second on an individual research project (= Master's thesis). In the first semester, students can choose from a catalogue of modules in two selected areas of specialisation, allowing them to tailor the programme to their individual interests. A total of five modules (33 ECTS) must be taken. The Master's thesis research project (27 ECTS) in the second semester forms a major component of the course and entails six months of full-time practical work in the laboratory on an autonomous research project. This element gives students experience in solving a scientific problem independently within the field of modern biomedical research as well as in writing a scientific publication.

Our curriculum complies with the European Credit Transfer system (ECTS) to ensure compatibility with other international programmes. The Master's programme encompasses a total of 60 ECTS.

Compulsory Lectures of the one-year curriculum:

Advanced Immunology, Advanced Neurosciences, Advanced Oncology, Advanced Infection Biology (3 ECTS each)

Compulsory Laboratory Rotations:

Laboratory Rotation Immunology A/B, Laboratory Rotation Neurosciences A/B, Laboratory Rotation Oncology A/B, Laboratory Rotation Infection Biology A/B (12 ECTS each)

Compulsory Seminar:

Seminar Meet the Expert (3 ECTS)

Master's Thesis (27 ECTS)

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<b>A Diploma supplement will be issued</b>	Yes
<b>Integrated internships</b>	Two internships of six weeks each are to be completed during the first semester. Programme advisers will assist students in finding an appropriate internship.
<b>Course-specific, integrated German language courses</b>	No
<b>Course-specific, integrated English language courses</b>	No

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	1,500 EUR
<b>Additional information on tuition fees</b>	Approx. 1,500 EUR per semester for students from non-EU countries
<b>Semester contribution</b>	Enrolment fees at the University of Tübingen are currently approx. 160 EUR per semester. This includes use of local public transport free of charge on Mondays to Fridays in the evening, at weekends and on public holidays. In addition, students may purchase a semester ticket for unlimited use of public transport in the city of Tübingen and the surrounding area (currently approx. 140 EUR).
<b>Costs of living</b>	Estimated basic student expenses are about 950 EUR per month according to the Tübingen Student Services organisation ("Studierendenwerk"), including rent for student accommodation. Rent for private accommodation will be more expensive.
<b>Funding opportunities within the university</b>	No

## Requirements / Registration

<b>Academic admission requirements</b>	To study successfully in our one-year consecutive Master's programme, applicants need basic knowledge in immunology, infection biology, oncology, and neurosciences including acquired
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knowledge/practical skills about common laboratory methods.

In addition to the completed application form, the minimum graduate admission requirements are:

- 1) a Bachelor's degree/first degree in molecular medicine or a recognised equivalent from an accredited institution with 240 ECTS points and with a final grade of at least 3.0 in the German grading system; equivalence is tested by the selection committee.
- 2) at least six credits in each of the following subjects: Immunology, Infection Biology, Oncology and Neurosciences
- 3) official proof of English language proficiency (see below)
- 4) an "Allgemeine Hochschulzugangsberechtigung (HZB)", i.e. a general qualification for university entrance; foreign certificates must be verified by the relevant public authority as comparable.
- 5) a curriculum vitae (CV)
- 6) a letter of motivation (a maximum of two pages A4), optional
- 7) request to laboratory classes/practical laboratory skills for prospective students in Molecular Medicine (only available during application period); the document must be signed by an authorised person at the sending institution / academic body and bear the official stamp of the institution.

#### Language requirements

Applicants must provide proof of their English skills (level C1 CEFR or above). Proof of English language skills can be demonstrated on the basis of:

- 1) Internet-based TOEFL (TOEFL iBT)
- 2) IELTS
- 3) Cambridge Certificate of Advanced English Test
- 4) Language certificate from the German Academic Exchange Service (DAAD) in accordance with the levels of language competence of the Common European Framework of Reference and the UNICert System

Other documentation will not be accepted.

Exceptions: Some students applying for Master's courses may be exempt from submitting formal test evidence:

- 1) Applicants whose first language/mother tongue is English.
- 2) Applicants who have gained 30 ECTS in lectures/modules taught in English as part of a degree course in an EU/EEA country or in Switzerland. The language of instruction of each module must be clearly stated on official documents.
- 3) Applicants with a Bachelor's degree in a closely related subject area taught exclusively in English
- 4) Applicants with a first degree taught exclusively in English
- 5) Applicants who have gained 30 ECTS (or equivalent) in lectures/modules taught in English as part of a degree course in Great Britain, Ireland, Malta, USA, Australia, New Zealand, Jamaica, or English-speaking parts of Canada. The language of instruction must be clearly stated on official documents.
- 6) Applicants with a formal university entrance qualification gained through instruction in English

#### Application deadline

All applicants:  
15 April for the following winter semester

#### Submit application to

Online application: <https://uni-tuebingen.de/en/facilities/administration/iv-student-affairs/advising-and-admission-of-international-students/>

For questions, please contact the office of Advising and Admission of International Students: [study@uni-tuebingen.de](mailto:study@uni-tuebingen.de)

## Services

#### Possibility of finding part-time employment

Jobs and internships:  
The University of Tübingen has a job and internship board. Students may log in with their University of Tübingen accounts. Vacant positions are listed at <https://www.praxisportal.uni-tuebingen.de/signin>.

## Accommodation

Accommodation is available through the student services organisation (“Studierendenwerk“) or on the private market. Rooms in student accommodation cost approx. 200 to 400 EUR per month. As Tübingen is a very attractive place to live, private accommodation is more expensive and can take some effort to find. To make sure you find a suitable place to live, you should start looking as early as possible.

We recommend you apply for student accommodation through the “Studierendenwerk” at the same time that you apply for admission to the Master's programme (<https://www.my-stuwe.de/en/housing/halls-of-residence-tuebingen/> and <https://www.my-stuwe.de/en/housing/faqs/>) and send in a copy of your notification of admission as soon as you have received it. (Your application won't be processed before the “Studierendenwerk” has received proof of your admission.) For further information, check out the “Studierendenwerk” pages on housing in Tübingen (<https://www.my-stuwe.de/en/housing/housing-infos/>).

## Support for international students and doctoral candidates

- Specialist counselling
- Cultural and linguistic preparation

## General services and support for international students and doctoral candidates

The university's Office for Advising and Admission of International Students offers advice on all academic matters (<http://www.uni-tuebingen.de/en/90787>).

The university offers a number of “on-boarding” services for newly arriving international students. For further information, please refer to: <https://uni-tuebingen.de/en/182071>

The student initiative “StudiT” (“Studierenden-Initiative Internationales Tübingen”) offers a buddy programme and a wide range of social activities ([www.studit-tuebingen.de/en/](http://www.studit-tuebingen.de/en/)).

The full German course programme including classes for beginners is available under [www.uni-tuebingen.de/en/1056](http://www.uni-tuebingen.de/en/1056)

## Contact

### University of Tübingen

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Department Study and Teaching

Silcherstraße 5  
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✉ [konstanze.muschko@med.uni-tuebingen.de](mailto:konstanze.muschko@med.uni-tuebingen.de)

🌐 Course website: <https://uni-tuebingen.de/en/study/finding-a-course/degree-programs-available/detail/course/molekulare-medizin-master/>

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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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German Academic Exchange Service

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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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