



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



## Table of Contents

Master's degree .....	2
Astro and Particle Physics (MSc) • University of Tübingen • Tübingen .....	2

# Master's degree



## Astro and Particle Physics (MSc)

University of Tübingen • Tübingen

### Overview

Degree	Master of Science in Astro and Particle Physics
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	<p>Courses are held in English.</p> <p>German courses specially designed for international Master's and PhD students are available at the university's House of Languages. 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>
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	The deadline for applications from abroad (non-EU) is 15 July each year for the winter semester and 15 January for the summer semester. For applicants from the EU, the deadline is 15 September for the winter semester and 31 March for the summer 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 programme	No
Description/content	<p>The Master of Science programme in Astro and Particle Physics is an international research-oriented two-year Master's programme established by the Kepler Center, which is part of the Physics Department within the Faculty of Science at the University of Tübingen. It consists of scientists from three different institutes within the Physics Department: Institute for Astronomy and Astrophysics, the Physical Institute, and the Institute for Theoretical Physics. The Kepler Center has a research focus in the areas of Astronomy and Astrophysics, Astroparticle Physics, and Particle Physics, and it manages a coordinated PhD programme with the topic of Particles, Fields and Messengers of the Universe.</p> <p>The Master's programme connects science from the fields of particle physics, astrophysics, and cosmology and combines different disciplines in experimental and theoretical physics, astronomy,</p>

and astrophysics. Scientists of the Kepler Center use various methods to discover the origin, structure, and evolution of our universe and the properties of elementary particles under extreme conditions.

## Course Details

Course organisation	<p>The Master's programme is a two-year consecutive study with a modular structure. In the first year, the students have to earn 60 ECTS credit points by attending lectures and seminars and attending to lab work.</p> <p>In the first semester, all students have to take the two basic introductory modules "Astronomy and Astrophysics" and "Particle Physics" consisting of lectures and exercises. These lay the foundations for all students and are augmented by an obligatory seminar and lab work. In the second semester, students can choose modules from a variety of different topics.</p> <p>In the second year, students will begin with the scientific work on a research topic of their choice in the areas of the Kepler Center and will finally write their Master's theses, earning another 60 CP (30 for acquiring research-oriented skills and 30 for the thesis).</p> <p><a href="#">» PDF Download</a></p>
A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none"><li>• Projects with partners in Germany and abroad</li></ul>
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

## Costs / Funding

Tuition fees per semester in EUR	1,500 EUR
Additional information on tuition fees	Approx. 1,500 EUR per semester for students from non-EU countries
Semester contribution	Enrolment fees at the University of Tübingen are currently about 160 EUR per semester. This includes use of local public transport free of charge from Mondays to Fridays in the evening, on weekends and 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 about 130 EUR).
Costs of living	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.
Funding opportunities within the university	No

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## Requirements / Registration

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<b>Academic admission requirements</b>	Bachelor of Science degree in physics or a similar degree with a grade of 2.5 or better (German grading system), profound knowledge of advanced quantum mechanics
<b>Language requirements</b>	Proof of English language skills: TOEFL 95, IELTS 6.0, native speaker, English-language Bachelor's degree, English B2 (CEFR), or possibly English as the first language at the German "Abitur" level
<b>Application deadline</b>	The deadline for applications from abroad (non-EU) is 15 July each year for the winter semester and 15 January for the summer semester. For applicants from the EU, the deadline is 15 September for the winter semester and 31 March for the summer semester.
<b>Submit application to</b>	Online application: <a href="https://uni-tuebingen.de/en/4204">https://uni-tuebingen.de/en/4204</a>  For questions regarding the application process, please contact the International Students Admissions Office via e-mail: <a href="mailto:study@uni-tuebingen.de">study@uni-tuebingen.de</a> .

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## Services

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<b>Possibility of finding part-time employment</b>	Students may find jobs as graduate research assistants for projects of the Department of Physics.
<b>Accommodation</b>	<p>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.</p> <p>We recommend you apply for student accommodation through the "Studierendenwerk" at the same time that you apply for admission to the Master's programme (<a href="https://www.my-stuwe.de/en/housing/halls-of-residence-tuebingen/">https://www.my-stuwe.de/en/housing/halls-of-residence-tuebingen/</a> and <a href="https://www.my-stuwe.de/en/housing/faqs/">https://www.my-stuwe.de/en/housing/faqs/</a>) 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 (<a href="https://www.my-stuwe.de/en/housing/housing-infos/">https://www.my-stuwe.de/en/housing/housing-infos/</a>).</p>
<b>Support for international students and doctoral candidates</b>	<ul style="list-style-type: none"><li>• Welcome event</li><li>• Tutors</li></ul>
<b>General services and support for international students and doctoral candidates</b>	<p>The university offers a number of "onboarding" services for newly arriving international students. These include:</p> <ul style="list-style-type: none"><li>• a help desk</li><li>• a buddy programme</li><li>• an advisory programme: "How to Study at the University of Tübingen"</li><li>• a wide range of social activities offered by student groups</li></ul> <p>For further information, please refer to: <a href="https://uni-tuebingen.de/en/182071">https://uni-tuebingen.de/en/182071</a> (onboarding for</p>

degree-seeking students).

A student initiative offers a buddy programme and a wide range of social activities during the orientation week and throughout the semester ([www.studit-tuebingen.de/en/](http://www.studit-tuebingen.de/en/)).

Furthermore, there is the Office for Advising and Admission of International Students (<http://www.uni-tuebingen.de/en/90787>).

#### Supervisor-student ratio

The number of participating faculty is 10, and the expected number of students is 20.

## University of Tübingen



University of Tübingen, the "Neue Aula"

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Innovative, interdisciplinary, international: These three words summarise what makes the University of Tübingen special. Excellent research and teaching are Tübingen's answer to the challenges of the future in a globalised world. We maintain exchanges with partners around the globe. Networks and cooperation across faculty and subject boundaries are the pillars of our successful strategy. This is reflected in our good position in international rankings. In addition, we are one of the eleven German universities distinguished with the title of "excellent."

The University of Tübingen has been a place of top-level research and excellent teaching for more than 500 years. Some 28,000 students from Germany and around the world are enrolled here in our more than 200 study programmes, including numerous international programmes taught entirely in English.

The University of Tübingen is a member of the European University Alliance "CIVIS – A European Civic University" (<https://civis.eu/en>), offering a wide range of special exchange opportunities for students.



### University location

Tübingen...

- is located in south-western Germany, about 40 kilometres south of Stuttgart.
- has some 90,000 inhabitants. The town's many students and its numerous young families make Tübingen Germany's youngest city

by average age.

- is one of the most coveted places to study in Germany – both because of the excellent conditions for students and researchers, and the unique charm of the town.
- boasts a renowned historic centre with many cafés, restaurants, and shops, and outstanding cultural activities.
- is a very safe place to be, with excellent public transport.
- is well known for its eco-friendly attitudes.
- is surrounded by beautiful countryside. The Black Forest and the Swabian Jura hills are not far away and provide excellent opportunities for climbing, canoeing, hiking, biking – and skiing in winter.

## Contact

### University of Tübingen

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🌐 Course website: <https://uni-tuebingen.de/en/faculties/faculty-of-science/departments/physics/studies/study-programs/msc-astro-and-particle-physics/>

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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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