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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">English
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: www.uni-tuebingen.de/en/1056.</p>
Full-time / part-time	<ul style="list-style-type: none">full-time
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>» PDF Download</p>
A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none">• Projects with partners in Germany and abroad
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 approx. 160 EUR per semester. This includes use of local public transport free of charge from Mondays to Fridays in the evening, on 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).
Costs of living	Estimated basic student expenses are around 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	No

Requirements / Registration

Academic admission requirements	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
Language requirements	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
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.
Submit application to	Online application: https://uni-tuebingen.de/en/4204 For questions regarding the application process, please contact the International Students Admissions Office via e-mail: study@uni-tuebingen.de .

Services

Possibility of finding part-time employment	Students may find jobs as graduate research assistants for projects of the Department of Physics.
Accommodation	<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 (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 finally 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/).</p>
Support for international students and doctoral candidates	<ul style="list-style-type: none">• Welcome event• Tutors
General services and support for international students and doctoral candidates	<p>The university offers a number of "onboarding" services for newly arriving international students. These include:</p> <ul style="list-style-type: none">• a help desk• a buddy programme• an advisory programme: "How to Study at the University of Tübingen"• a wide range of social activities offered by student groups

For further information, please refer to: <https://uni-tuebingen.de/en/182071>.

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/).

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.

Contact

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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
www.daad.de/sommerkurse

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Consortium for International Higher Education Marketing
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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