



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Earth-Oriented Space Science and Technology (ESPACE)

Technical University of Munich • München

Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none">English
Languages	English only
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	Applications must arrive by 31 May to be considered for the following winter semester. It is recommended that non-EU citizens submit their applications before 15 March.
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes
Description/content	<p>ESPACE is an interdisciplinary Master's programme, which makes use of and benefits from Munich's unique collection of industry in the fields of space, science and technology, research institutions and universities. The cooperating members of the programme are Ludwig Maximilians University, the University of the Federal Armed Forces and the German Aerospace Centre (DLR).</p> <p>The ESPACE curriculum connects courses on satellite applications in Earth System Science, Remote Sensing, and Navigation with courses on space engineering, spacecraft technology, and satellite data management. The programme consists of compulsory foundation courses over two semesters. For the third semester, students may choose one of the three specialisations: Earth System Science, Remote Sensing or Navigation. The programme is completed by writing a Master's thesis and defending it in a Master's colloquium within a period of six months.</p> <p>In addition to the regular ESPACE Master's programme, the ESPACE Double Degree Programme in cooperation with Wuhan University is an option that provides further lectures in remote sensing and GIS. Students who participate in the double degree programme can choose one of three specialisations: Navigation, Remote Sensing, and GIS.</p>

Course Details

Course organisation	The first year of the programme covers foundations of space engineering and science as well as an
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introduction to remote sensing, geosciences and navigation.

The third semester allows students to specialise in Earth System Science, Remote Sensing or Navigation.

The fourth and final semester is dedicated to a Master's thesis, which must then be defended in a Master's colloquium.

A Diploma supplement will be issued	Yes
International elements	<p>Two options for studying abroad:</p> <ul style="list-style-type: none">• Double degree programme with Wuhan University (WHU) <p>Students participating in the three-year double degree programme spend the third and fourth semesters at Wuhan University (WHU). The Master's thesis will be co-supervised by teachers from WHU and TUM and can be optionally completed either at WHU or TUM. Students will receive two transcripts (from TUM and WHU) after graduating from the double degree programme.</p> <ul style="list-style-type: none">• 1:1 programme with the Technical University of Denmark (DTU) <p>Students participating in the two-year 1:1 programme spend the third and fourth semesters at the Technical University of Denmark (DTU). The Master's thesis will be co-supervised by teachers from DTU and TUM. When graduating from the 1:1 programme, students will receive the transcript from TUM, and it will include the courses taken at DTU. It is possible to get funding via Erasmus+ for the one-year stay at DTU.</p>
Description of other international elements	<p>Two options for studying abroad:</p> <ul style="list-style-type: none">• Double degree programme with Wuhan University (WHU) <p>Students participating in the three-year double degree programme spend the third and fourth semesters at Wuhan University (WHU). The Master's thesis will be co-supervised by teachers from WHU and TUM and can be optionally completed either at WHU or TUM. Students will receive two transcripts (from TUM and WHU) after graduating from the double degree programme.</p> <ul style="list-style-type: none">• 1:1 programme with the Technical University of Denmark (DTU) <p>Students participating in the two-year 1:1 programme spend the third and fourth semesters at the Technical University of Denmark (DTU). The Master's thesis will be co-supervised by teachers from DTU and TUM. When graduating from the 1:1 programme, students will receive the transcript from TUM, and it will include the courses taken at DTU. It is possible to get funding via Erasmus+ for the one-year stay at DTU.</p>
Integrated internships	None required
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
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Semester contribution	The student union fee of 147 EUR per semester must be paid. The fee includes an administrative enrolment fee and a partial semester ticket covering public transport in Munich in the evenings and at weekends. A supplementary transport ticket can be obtained for about 200 EUR per semester.
Costs of living	The cost of living depends on your needs, for example, student dormitories start at 350 EUR, private rooms in a shared flat start at 500 EUR, and private apartments start at 600 EUR. The other costs of living start at 250–300 EUR. In total, it is good to budget at least 900 EUR per month.
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	TUM offers a scholarship for its international students that are already enrolled with high academic marks. The scholarship, funded by the budget of the Free State of Bavaria, offers a one-time study assistance of 500 EUR to 1,500 EUR for a semester. Applications can be obtained at the scholarship office of TUM or on the Internet. Deadlines and more information on this scholarship can be found on this website: https://www.tum.de/en/studies/fees-and-financial-aid/scholarships/tum-scholarships/scholarship-for-international-students-of-tum .

Requirements / Registration

Academic admission requirements	An above-average Bachelor's or "Diplom" degree in science or engineering, e.g. aerospace or electronic engineering, mathematics, physics, informatics, geodesy, geophysics, etc. There is an internal admission procedure. Decisions about admission rest with the programme directors. Application information can be found at: http://www.espace-tum.de .
Language requirements	<p>Proof of sufficient English language skills must be submitted before the end of the application period for all degree programmes whose language of instruction is English.</p> <ul style="list-style-type: none"> • TOEFL (minimum requirements): Internet-based test (iBT): 88, paper-based test (PBT): 605 • IELTS: only a minimum overall band score of 6.5 in the IELTS Academic will be accepted. • CAE (Cambridge Advanced English), Level A, B, C • CPE (Cambridge Proficiency English), Level A, B, C • Language of instruction: evidence in the form of certificates is required. <p>Up-to-date information on English requirements can be found here: https://www.tum.de/en/studies/application-and-acceptance/university-admission/language-certificates</p>
Application deadline	Applications must arrive by 31 May to be considered for the following winter semester. It is recommended that non-EU citizens submit their applications before 15 March.
Submit application to	In order to apply at TUM, you need to open a TUMonline account: https://campus.tum.de/tumonline/webnav.ini . Our application wizard will guide you step by step through the online application procedure.

Services

Possibility of finding part-time employment

A limited number of student assistant positions are available at the collaborating university institutes for qualified students after they have enrolled in the programme.

Accommodation

It's not easy to find a place to live in Munich – but it's not impossible either! The Technische Universität München (TUM) supports students and staff in their search for accommodation by providing personal advice, in-house listings, and useful information to ensure that they can quickly find a place to call their own. <https://www.tum.de/en/studies/during-your-studies/living-and-working/accommodations>

Support for international students and doctoral candidates

- Welcome event
- Buddy programme

Contact

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🌐 Course website: <https://wiki.tum.de/display/edschooloffice/M.Sc.+ESPACE+-+Earth+Oriented+Space+Science+and+Technology>

● <http://twitter.com/EspaceTUM>

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

Editor

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